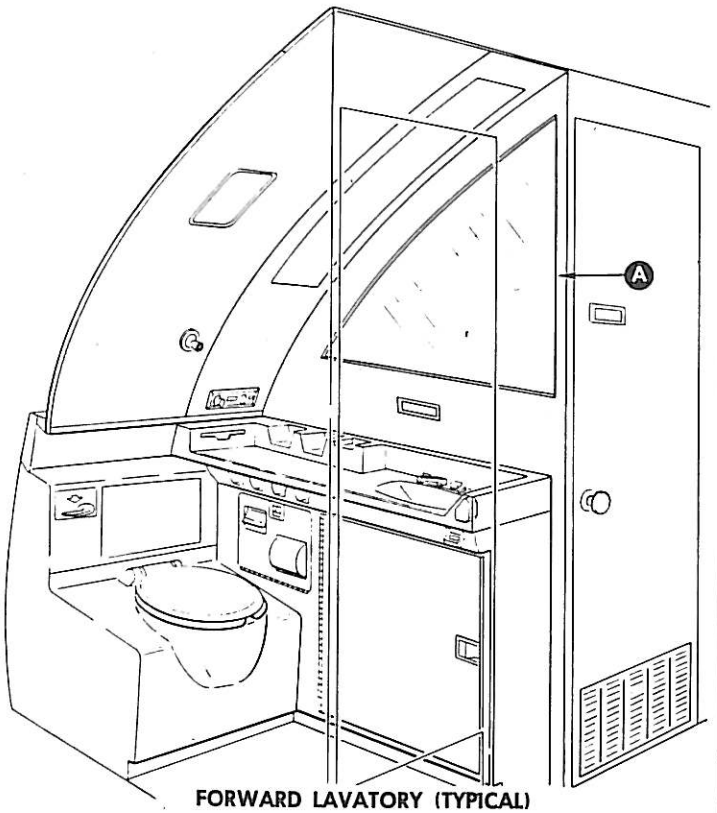
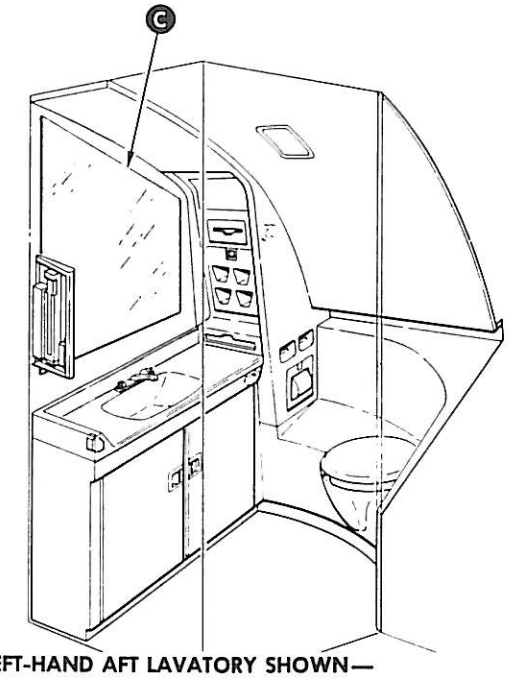
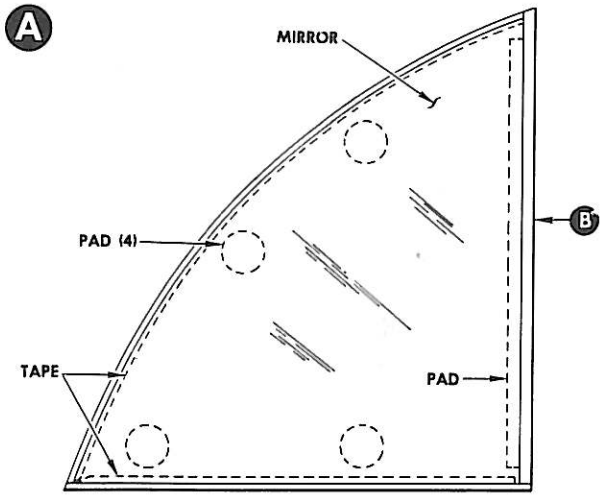


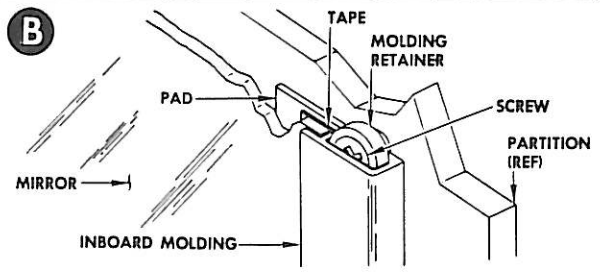
FORWARD LAVATORY (TYPICAL)



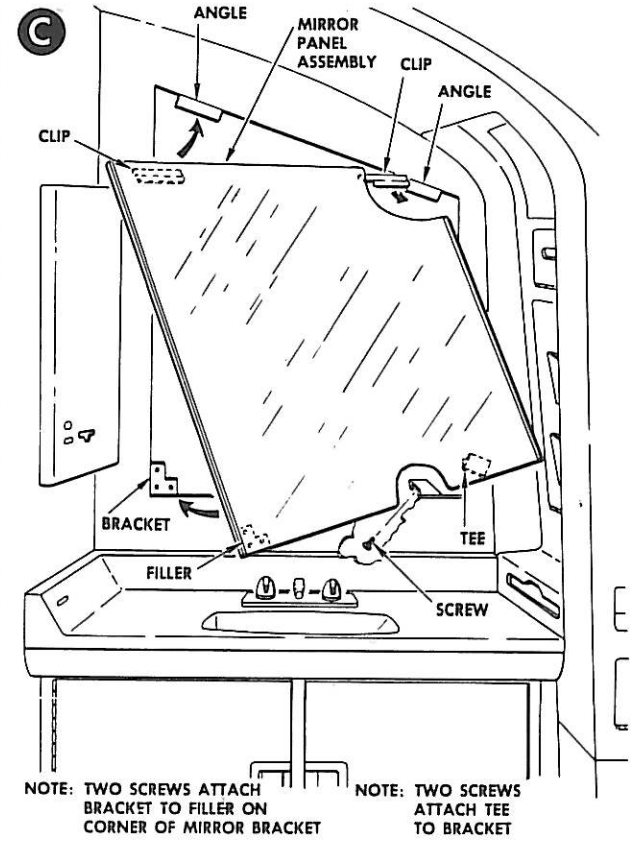
LEFT-HAND AFT LAVATORY SHOWN—
RIGHT-HAND AFT LAVATORY SIMILAR



FORWARD LAVATORY MIRROR



INBOARD MOLDING RETAINER



AFT LAVATORY MIRROR

30.02.25.100

LAVATORY MIRRORS - MAINTENANCE PRACTICES

1. Removal/Installation Forward Lavatory Mirrors (see Figure 201)

   A. Equipment Required.

      (1) Tape - VBB-22 (Minnesota Mining and Mfg.) or equivalent.

      (2) Cement - EC 1300 (Minnesota Mining and Mfg.) or equivalent.

   B. Remove Forward Lavatory Mirror.

      (1) Slide inboard edge molding strip up and remove molding strip.

      (2) Slide mirror inboard to remove from outboard and lower molding strips.

      (3) Remove mirror.

   C. Install Forward Lavatory Mirror.

      (1) Check condition of tape (VBB-22) around edges of mirror and replace as necessary. (Install tape on new mirror.)

         NOTE: Tape extends from aft side of mirror over edge and overlaps face of mirror 0.10 inch on inboard edge and 0.24 inch on outboard and lower edges.

      (2) Check condition of pads on lavatory partition. Replace or re-cement (EC 1300) pads as necessary.

      (3) Insert outboard and lower edges of mirror in molding.

      (4) Place inboard molding strip in place and slide down to engage retainers.

2. Removal/Installation Aft Lavatory Mirrors (see Figure 201)

   A. Equipment Required - None.

   B. Remove Aft Lavatory Mirror.

      (1) Open disposal bin doors below wash basin to gain access to aft side of mirror.

      (2) Remove three screws securing bracket to mirror panel at lower inboard corner.

      (3) Remove two screws securing bracket to tee at lower outboard center of mirror panel.

(7) Connect wiring to stewardess call panel, in place trim panel cutout and slide forward to engage spring clips (forward lavatories).

(8) Close ELEC SHAVER and FWD PASS CALL circuit breakers on main circuit breaker panel.

2. Inspection/Check Lavatory Trim Panels

A. Check for the following:

(1) Panels for cleanliness and general condition.

(2) Panels for scratches, cuts or tears.

(3) Panels for security of attachment.

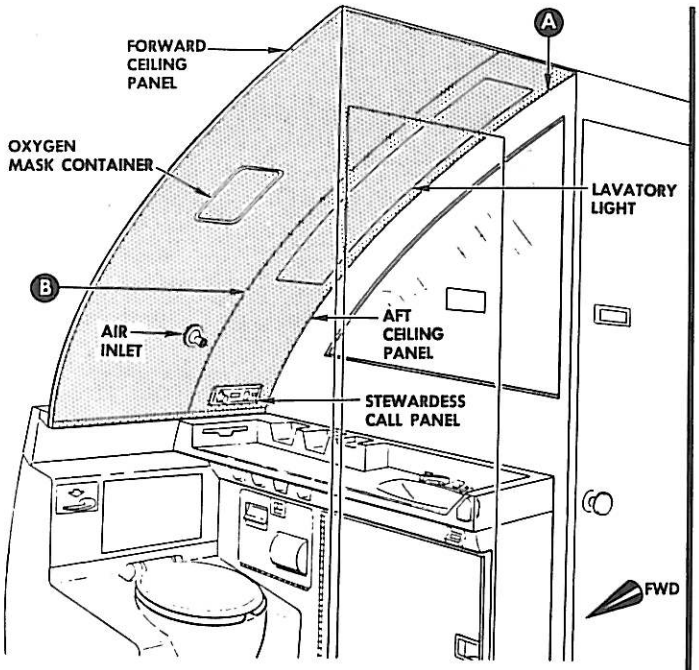
(4) Sponge rubber roll and neoprene extrusion for condition, cleanliness, and security.

3. Cleaning/Painting Lavatory Trim Panels

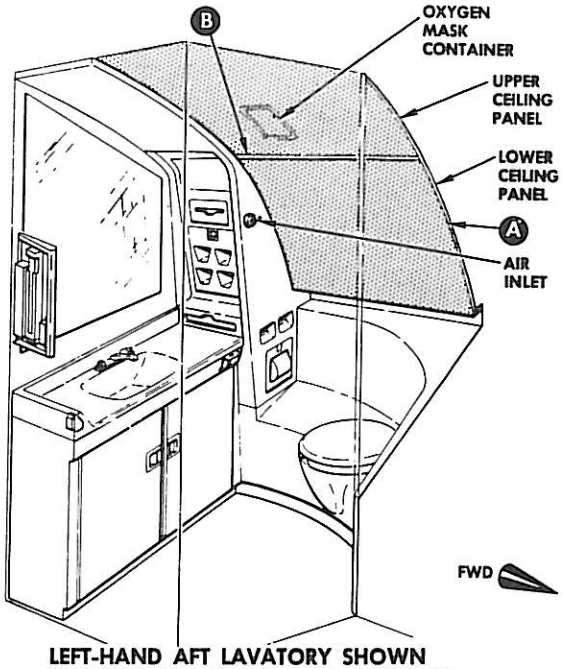
A. Refer to Cleaning/Painting Compartment Trim.

4. Approved Repairs Lavatory Trim Panels

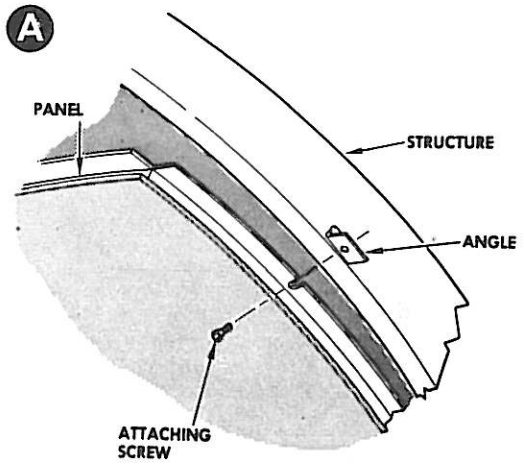
A. Refer to Approved Repairs Vinyl Covered Trim and Panels.



TYPICAL FORWARD LAVATORY

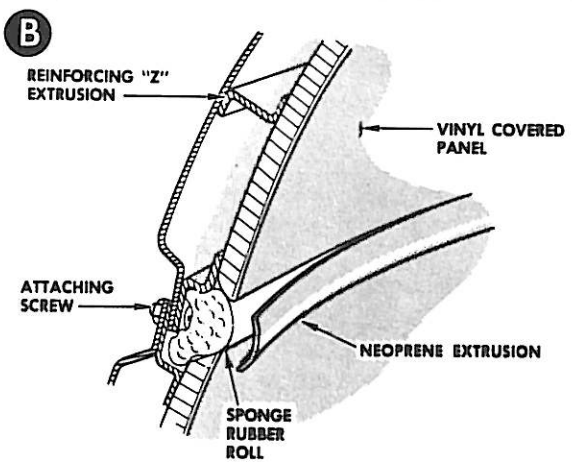


LEFT-HAND AFT LAVATORY SHOWN
(RIGHT-HAND AFT LAVATORY SIMILAR)



TYPICAL ATTACHMENT OF CEILING PANEL TO STRUCTURE

30.02.25.101



TYPICAL CEILING PANEL BUTT JOINT

LAVATORY TRIM PANELS - MAINTENANCE PRACTICES

1. Removal/Installation Lavatory Trim Panels (see Figure 201)

A. Equipment Required - None.

B. Remove Ceiling Trim Panels.

NOTE: Removal/Installation procedures for forward and aft lavatories are identical except as noted. Upper ceiling panel must be removed first in aft lavatories. Aft ceiling panel must be removed first in forward lavatories.

(1) Open ELEC SHAVER and FWD PASS CALL circuit breakers on main circuit breaker panel.

(2) Remove neoprene extrusion and sponge rubber roll at edges of trim panel.

(3) Remove oxygen mask box (refer to Chapter 35, OXYGEN).

(4) Remove adjustable air inlet (refer to Chapter 21, AIR CONDITIONING).

(5) Remove light assembly from forward lavatory aft trim panel (refer to Chapter 33, LIGHTS).

(6) Slide stewardess call panel aft, disconnect wiring and remove panel (forward lavatories).

(7) Remove attaching screws and washers from trim panel.

(8) Carefully remove trim panel.

CAUTION: USE EXTREME CARE NOT TO DAMAGE PANEL OR AREAS NEAR PANEL.

C. Install Ceiling Trim Panels.

(1) Carefully place panel in position and align screw holes.

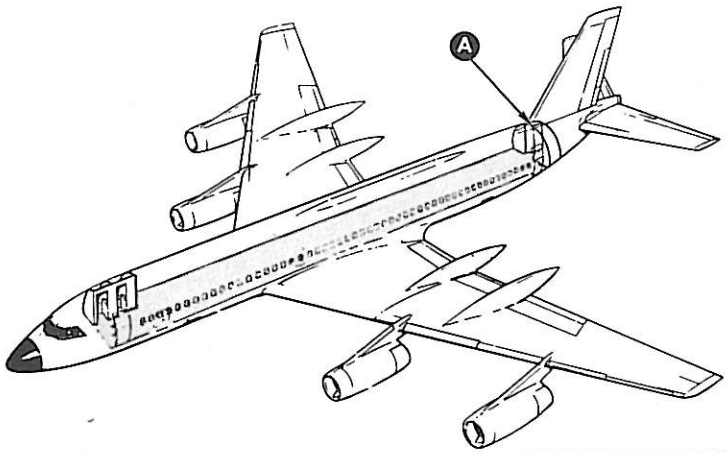
(2) Install attaching screws and washers.

(3) Install sponge rubber roll and neoprene extrusion at edges of trim panel.

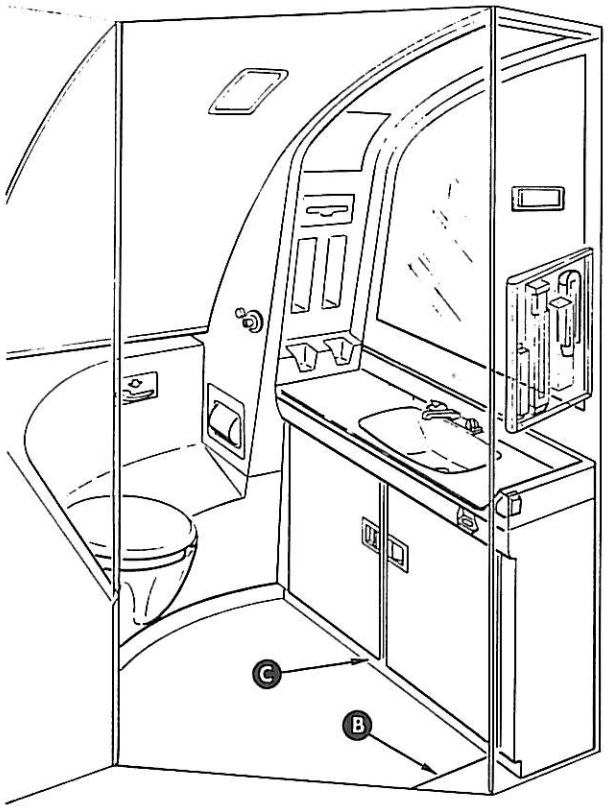
(4) Install oxygen mask box (refer to Chapter 35, OXYGEN).

(5) Install adjustable air inlet (refer to Chapter 21, AIR CONDITIONING).

(6) Install light in forward lavatory (refer to Chapter 33, LIGHTS).

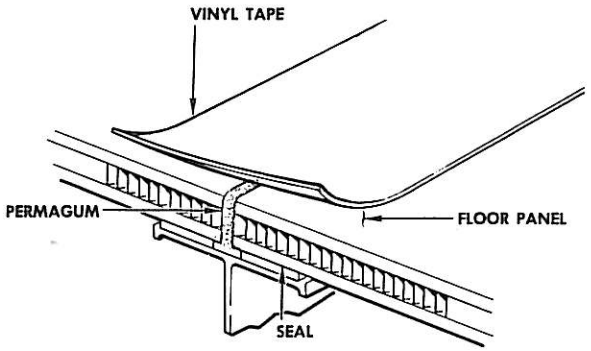


A



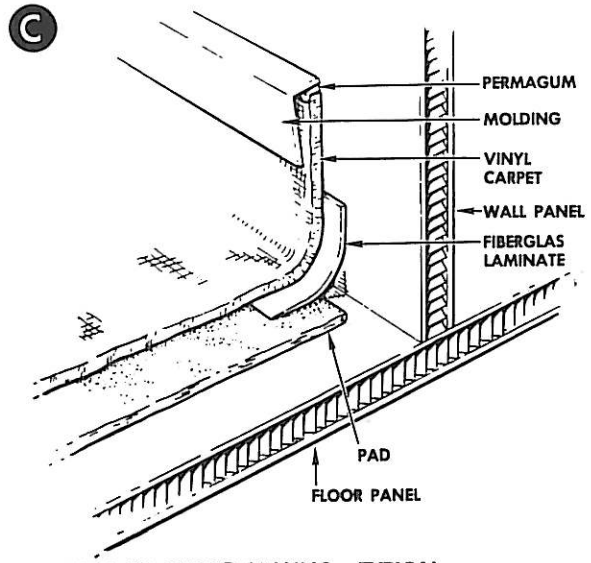
RH AFT LAVATORY SHOWN AS TYPICAL

B



SEALING FLOOR PANEL BUTT JOINTS—TYPICAL

C



WALL-TO-FLOOR SEALING—TYPICAL

30.30.25.022A

LAVATORY FLOOR COVERING - MAINTENANCE PRACTICES

1. Removal/Installation Lavatory Floor Covering (see Figure 201)

   A. Equipment Required - Filler - Permagum 576.1 (Hubbard Co.) or equivalent.

   B. Remove Lavatory Floor Covering.

      (1) Remove tread plate at doorway.

      (2) Remove molding at edge of floor covering.

      (3) Remove floor covering.

      (4) Remove floor covering pad.

   C. Install Lavatory Floor Covering.

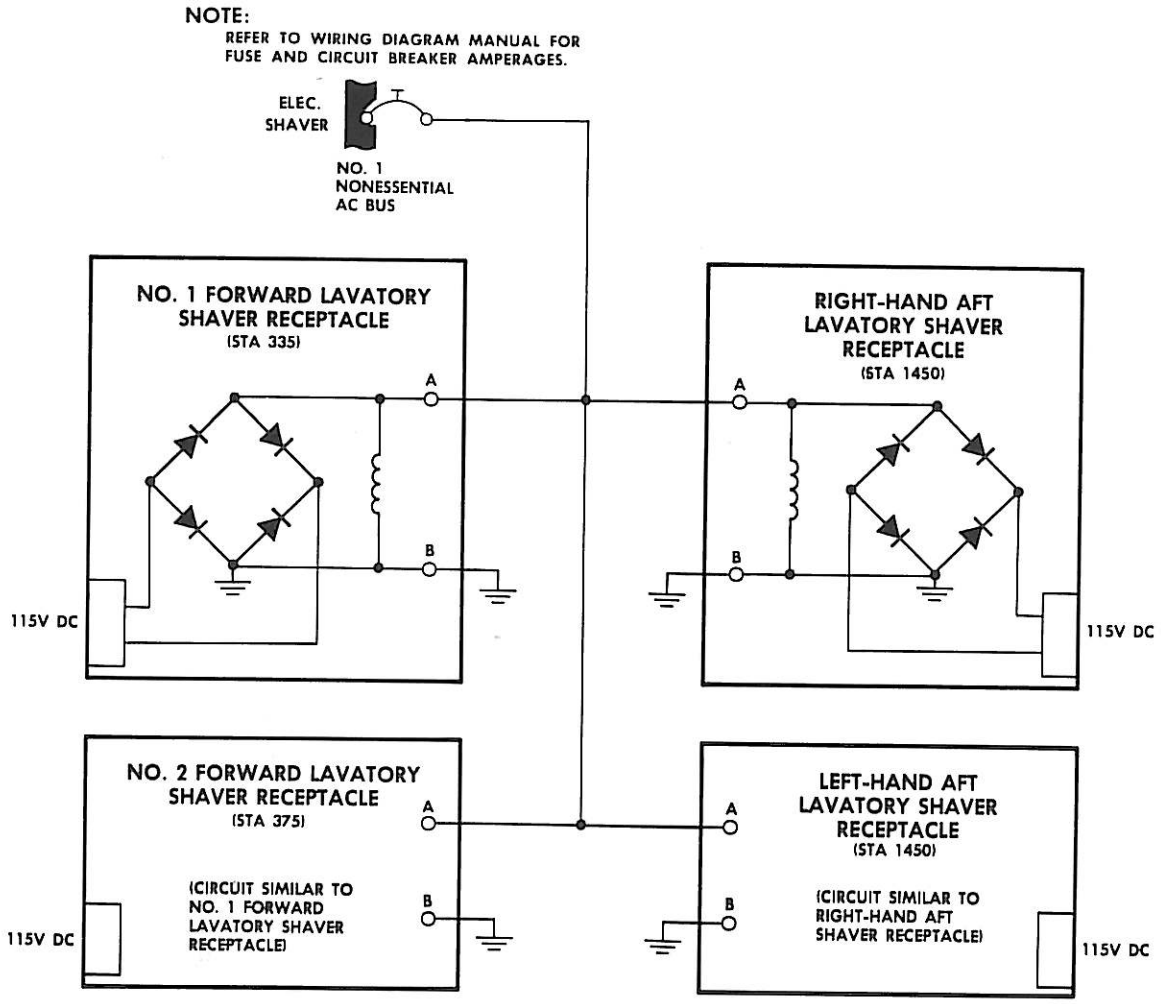
      (1) Place floor covering pad in position.

      (2) Place floor covering in position.

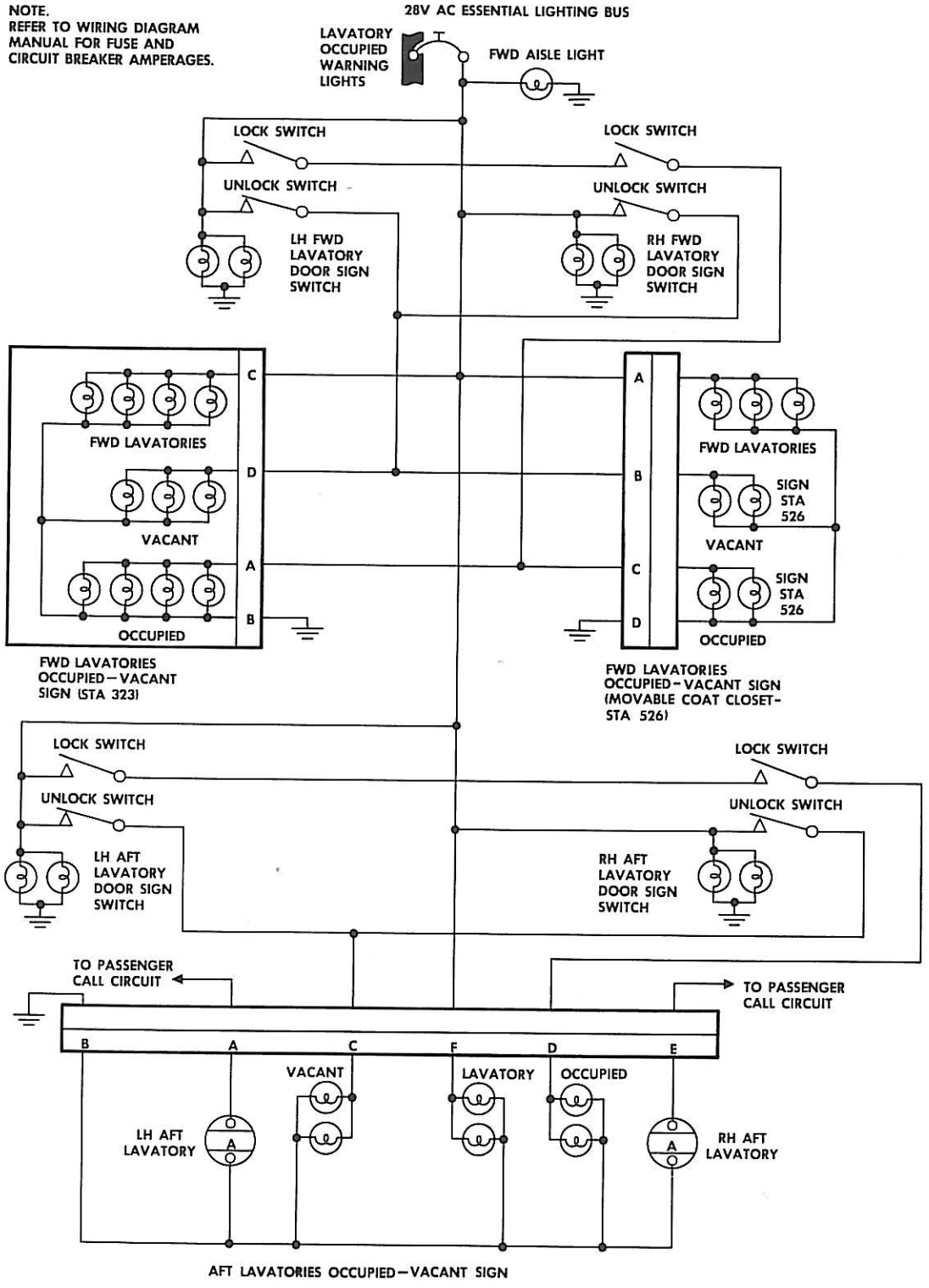
      (3) Seal floor covering edge to adjoining surface with Permagum 576.1.

      (4) Install molding at floor covering edge.

      (5) Install tread plate at doorway.


NOTE:
REFER TO WIRING DIAGRAM MANUAL FOR FUSE AND CIRCUIT BREAKER AMPERAGES.
ELEC. SHAVER
NO. 1 NONESSENTIAL AC BUS
NO. 1 FORWARD LAVATORY SHAVER RECEPTACLE
(STA 335)
A
B
115V DC
RIGHT-HAND AFT LAVATORY SHAVER RECEPTACLE
(STA 1450)
A
B
115V DC
NO. 2 FORWARD LAVATORY SHAVER RECEPTACLE
(STA 375)
A
B
115V DC
(CIRCUIT SIMILAR TO NO. 1 FORWARD LAVATORY SHAVER RECEPTACLE)
LEFT-HAND AFT LAVATORY SHAVER RECEPTACLE
(STA 1450)
A
B
(CIRCUIT SIMILAR TO RIGHT-HAND AFT SHAVER RECEPTACLE)
115V DC

30.30.25.025B



30.02.25.082

Lavatory Warning Signs Schematic
Figure 2

the forward lavatories are located above the aisle in the ceiling header at fuselage stations 323 and 526; the sign for the aft lavatories is located above the aft lavatory doors at fuselage station 1438. The lavatory warning lights circuit (see Figure 2) receives power from the 28-volt, ac essential lighting bus and is protected by the 3-ampere LAV OCCUPIED WARN LTS circuit breaker. The circuit is energized whenever power is supplied to the bus.

The latch "unlock" switches in the forward lavatory doors are wired in parallel to the forward lavatories VACANT signs. Both signs will indicate VACANT whenever either or both of the lavatories are vacant. The latch "lock" switches are wired in series to the OCCUPIED section of the forward signs. The signs will indicate OCCUPIED only when both lavatories are in use.

The aft lavatory door switches are wired to the aft lavatory OCCUPIED-VACANT sign similar to the forward lavatory switches and give similar indications.

5. Electric Shaver Receptacles

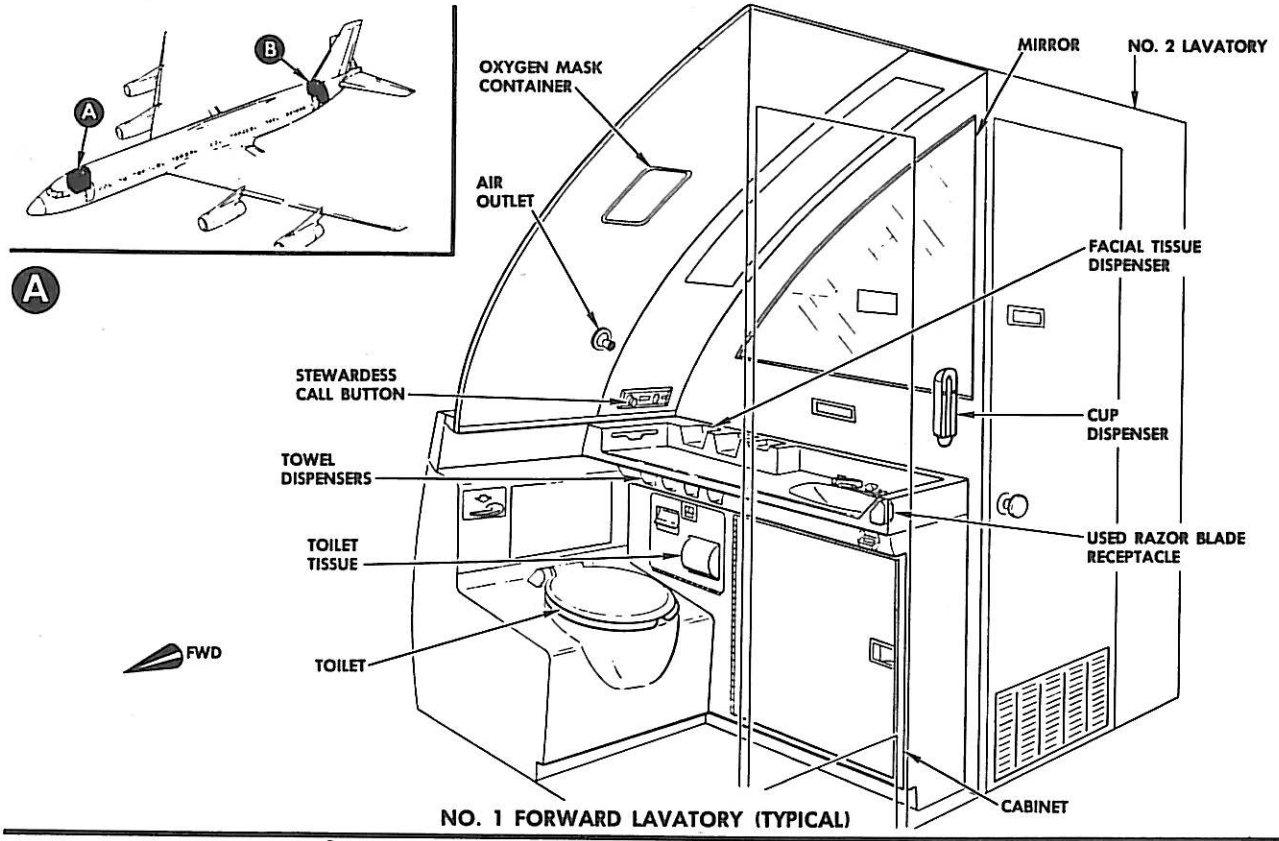
Each lavatory has a 115-volt, dc receptacle for electric shavers. Each receptacle is on the centerline partition in the aft lavatories and on the outboard partition in the forward lavatories. The shave outlets circuit, shown on Figure 3, receives power from the No. 1 nonessential ac bus and is protected by the ELEC SHAVER circuit breaker on the main circuit breaker panel.

6. Mirrors

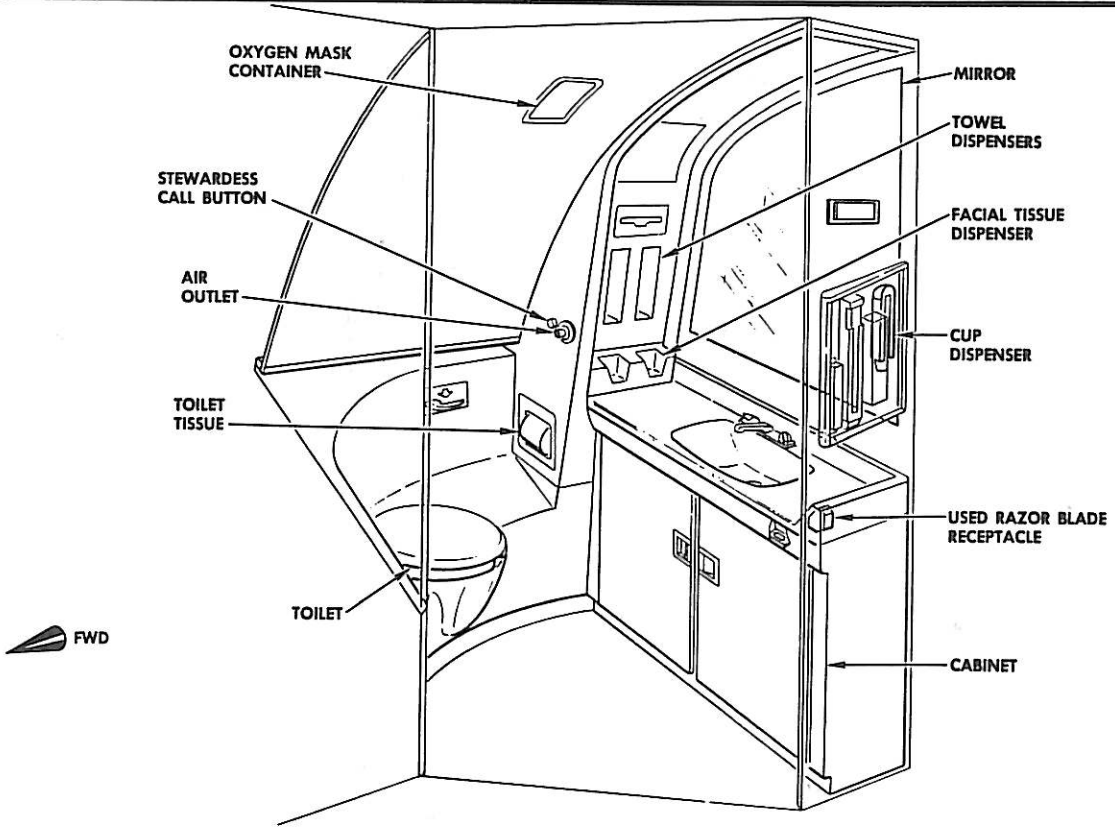
Mirrors are installed in the forward and aft lavatories for convenience of passengers and crew. Each mirror is lighted by fluorescent lamps (refer to Chapter 33, LIGHTS).

7. Cabinets

Cabinets are installed in the aft section of the forward and aft lavatories. The cabinets incorporate individual compartments for storing the various airline-furnished toilet articles.



NO. 1 FORWARD LAVATORY (TYPICAL)



RIGHT-HAND AFT LAVATORY (TYPICAL)

30.30.25.021A

LAVATORY COMPARTMENT - DESCRIPTION AND OPERATION

1. General

There are four lavatory compartments: two on the right side of the fuselage, opposite the forward main entrance door; and two oft of the rear entrance area, one to the right and one to the left of the airplane centerline. Each lavatory is completely equipped; see Figure 1.

The lavatory doors are locked by a sliding bolt. The sliding bolt latch is normally operable from the inside but can be unlocked from the outside, in an emergency, without the use of special tools. The door sliding bolts also operate microswitches that control the lavatory OCCUPIED-VACANT signs. These signs are located above the doors at the aft lavatories, and on the ceiling header over the aisle at the forward lavatories.

The water waste storage tanks and wash basin cabinets are separated from the airplane structure by fiberglas seal pans to guard against leakage. The tanks for the aft lavatories are serviced from the common servicing point located on the bottom centerline of the fuselage at station 1446. The forward lavatories are serviced from a common servicing point located on the lower right side of the fuselage at station 350.

2. Floor Covering

The floor areas of the lavatories are sealed before the carpet is installed, to prevent any water from reaching the inner structure of the airplane. The lavatory floors are covered with a vinyl carpet installed over a pad. The carpet is in one piece and is turned up two inches around the edge, over a fiberglas backing. The edge of the carpet is sealed with Permagum and secured with molding. Figure 201, Section 25-4-1, shows typical lavatory floor sealing and carpet details.

3. Trim Panels

The trim panels in the forward lavatories are a sandwich of Spongex material between layers of fiberglas cloth. However, because of the additional soundproofing required aft of the wing, the trim panels in the aft lavatories are 1/4-inch aluminum honeycomb between fiberglas cloth together with a one-inch layer of soundproofing retained by an 0.025-inch aluminum alloy panel.

As in the other compartments, the trim attaching screws are hidden by sponge rubber rolls and neoprene extrusion at all butt joints. The lower edges of the lavatory trim panels fit into a channel; no attaching hardware is used along this edge.

4. Lavatory Warning Signs

The sliding bolt door latch on each lavatory door actuates a mechanical indicator at the door latch, which indicates whether the lavatory is occupied or vacant. Each door latch also actuates a "lock" switch and an "unlock" switch which controls the illuminated OCCUPIED-VACANT signs. The signs for

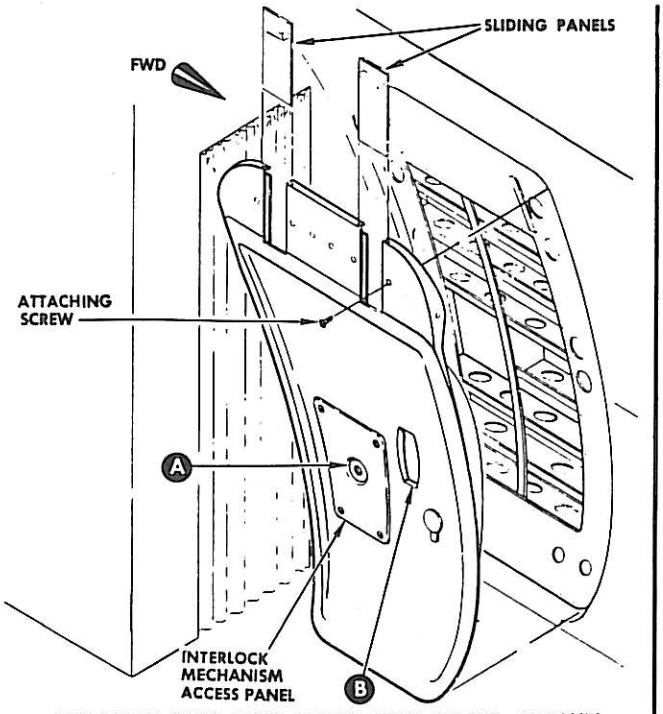
C. Install Forward and Aft Service Door Trim Panel.

(1) Carefully place panel in position and install attaching screws.

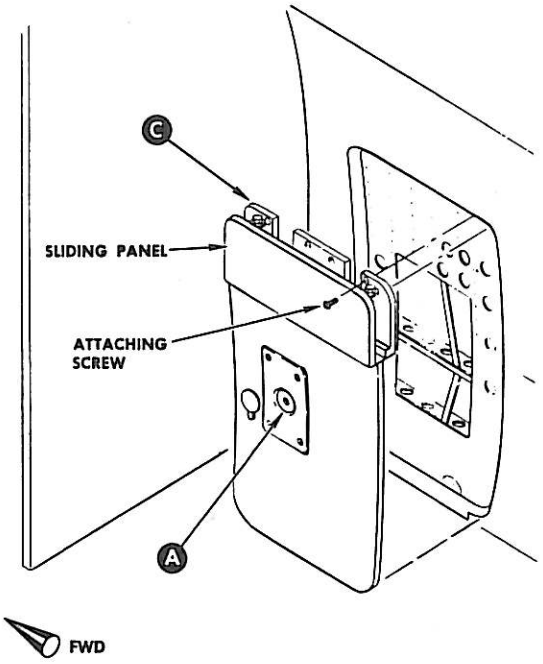
(2) Install acoustical seal on service door. Insert seal in channel with smooth, dull knife to prevent damaging seal.

(3) Install retaining cup at door handle with attaching screws.

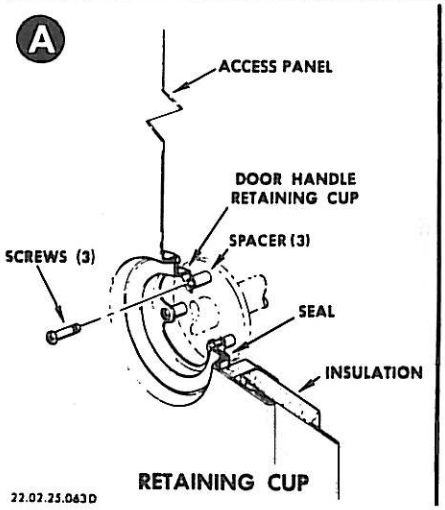
(4) Install door handle (refer to Chapter 52, DOORS).



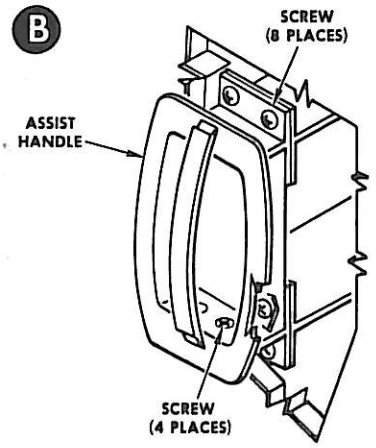
AFT MAIN ENTRANCE DOOR TRIM PANEL SHOWN—
FORWARD MAIN ENTRANCE DOOR SIMILAR



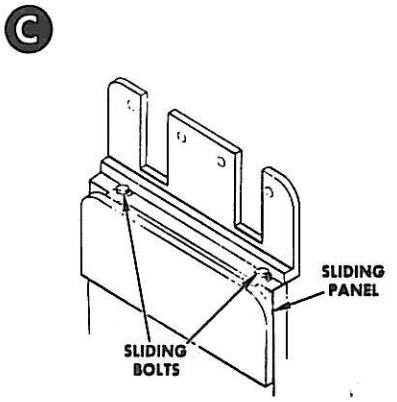
AFT SERVICE DOOR TRIM PANEL SHOWN—
FORWARD SERVICE DOOR SIMILAR



RETAINING CUP



ASSIST HANDLE



AFT SERVICE DOOR SLIDE PANEL

Main Entrance and Service Door Trim
Panel Installation
Figure 201

MAIN ENTRANCE AND SERVICE DOOR TRIM PANELS - MAINTENANCE PRACTICES

1. Removal/Installation Forward and Aft Main Entrance Door Trim Panel (see Figure 201)

   A. Equipment Required - None.

   B. Remove Forward and Aft Main Entrance Door Trim Panel.

      (1) Remove main entrance door handle.

      (2) Remove retaining cup attaching screws at door handle and remove cup. (Bag and tag parts for installation.)

      (3) Remove acoustical seal from main entrance door.

      (4) Remove assist handle attaching screws and remove handle. (Bag and tag for installation.)

      (5) Remove trim panel attaching screws. (Bag and tag for installation.)

      (6) Carefully remove trim panel.

   C. Install Forward and Aft Main Entrance Door Trim Panel.

      (1) Carefully place panel in position and install attaching screws.

      (2) Install assist handle with attaching screws.

      (3) Install acoustical seal on main entrance door. Insert seal in channel with smooth, dull knife to prevent damaging seal.

      (4) Install retaining cup at door handle with attaching screws.

      (5) Install door handle (refer to Chapter 52, DOORS).

2. Removal/Installation Forward and Aft Service Door Trim Panel (see Figure 201)

   A. Equipment Required - None.

   B. Remove Forward and Aft Service Door Trim Panel.

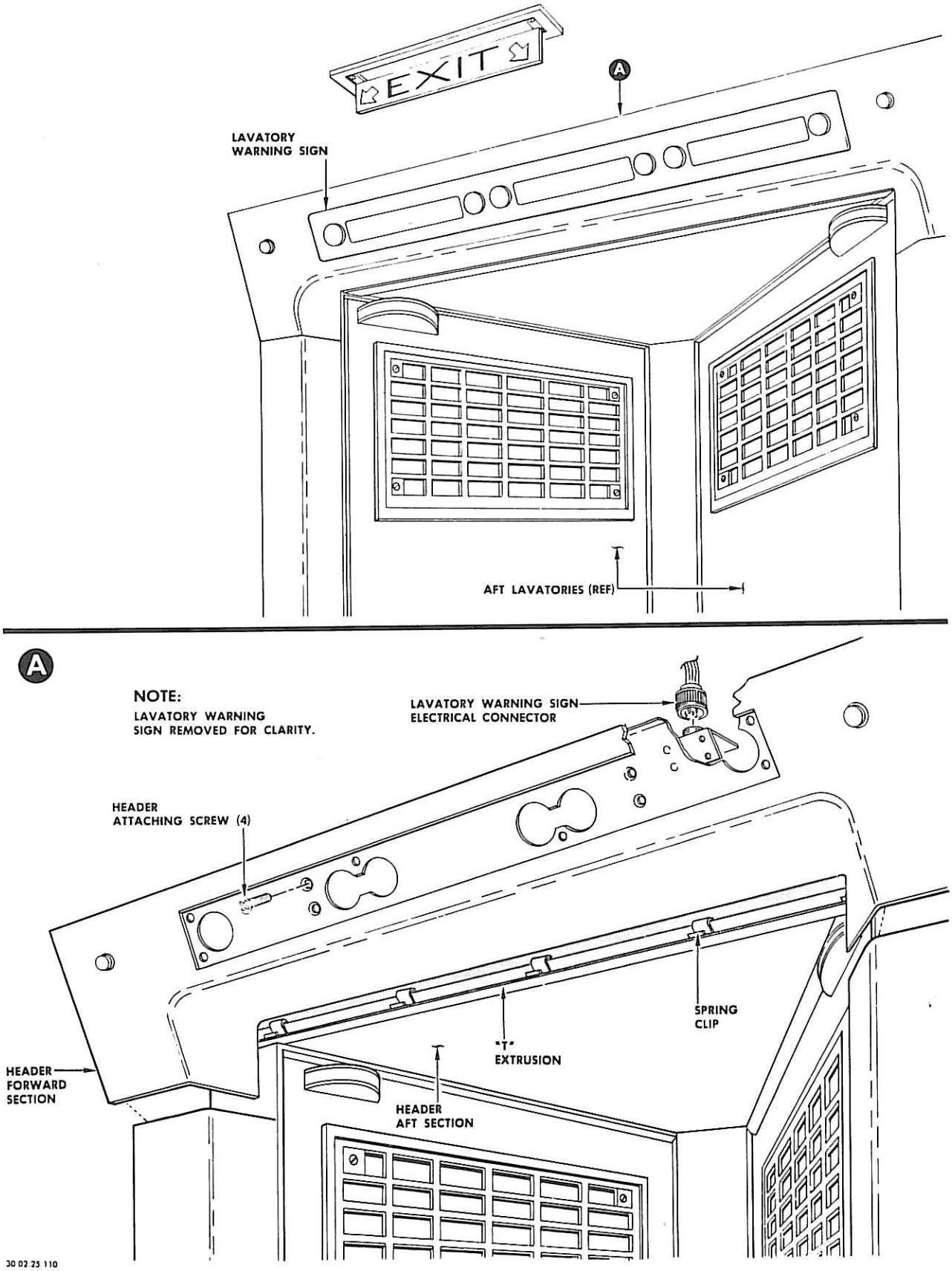
      (1) Remove service door handle (refer to Chapter 52, DOORS).

      (2) Remove retaining cup attaching screws at door handle and remove cup. (Bag and tag parts for installation.)

      (3) Remove acoustical seal from service door.

      (4) Remove trim panel attaching screws.

      (5) Carefully remove trim panel.


EXIT
A
LAVATORY WARNING SIGN
AFT LAVATORIES (REF)
A
NOTE:
LAVATORY WARNING SIGN REMOVED FOR CLARITY.
LAVATORY WARNING SIGN ELECTRICAL CONNECTOR
HEADER ATTACHING SCREW (4)
SPRING CLIP
"T" EXTRUSION
HEADER FORWARD SECTION
HEADER AFT SECTION
30 02 25 110

8. Removal/Installation Aft Main Entrance and Service Doorway Trim

A. Refer to Removal/Installation Forward Main Entrance and Service Doorway Trim.

9. Removal/Installation Header, Aft Entrance Area (see Figure 203)

A. Equipment Required - None.

B. Remove Header.

(1) Open LAV OCCUP WARN LTS circuit breaker on main circuit breaker panel.

(2) Remove OCCUPIED - VACANT sign at header between aft lavatories (refer to Removal/Installation Aft Lavatories Warning Sign).

(3) Remove header attaching screws.

(4) Move header forward sufficiently to disconnect electrical connector at left end of header.

(5) Remove forward section of header.

(6) Remove aft section of header.

C. Install Header.

(1) Slide aft section of header into grooves provided in attaching angles over lavatory doors.

(2) Start forward section of header in grooves in attaching angles and install electrical connector at left end of header.

(3) Install header attaching screws.

(4) Install OCCUPIED - VACANT sign (refer to Removal/Installation Aft Lavatories Warning Sign).

(5) Close LAV OCCUP WARN LTS circuit breaker on main circuit breaker panel.

C. Install Ceiling Aft Panel.

(1) Carefully raise panel into position and engage clips on left side of ceiling panel with trim panels on left side of entrance area.

(2) Install ceiling aft panel attaching screws.

(3) Install sponge rubber roll and neoprene extrusion at edges of trim panel.

(4) Install overhead trim panel aft of aft service door (refer to Removal/Installation Overhead Trim Panel - Aft of Aft Service Door).

(5) Install overhead trim panel above aft service door (refer to Removal/Installation Overhead Trim Panel - Above Aft Service Door or Aft Main Entrance Door).

(6) Install header between aft lavatories doors (refer to Removal/ Installation Header, Aft Entrance Area).

(7) Install stewardess oxygen outlet (refer to Chapter 35, OXYGEN).

(8) Install EXIT sign (refer to Chapter 33, LIGHTS).

7. Removal/Installation Ceiling Forward Panel (see Figure 202)

A. Equipment Required - None.

B. Remove Ceiling Forward Panel.

(1) Remove neoprene extrusion and sponge rubber roll at edges of trim panel.

(2) Remove capping at left edge of trim panel. Capping fasteners are accessible through holes in capping.

(3) Remove trim panel attaching screws.

(4) Carefully remove trim panel.

C. Install Ceiling Forward Panel.

(1) Carefully place trim panel in position and install attaching screws.

(2) Install capping at left edge of trim panel.

(3) Install sponge rubber roll and neoprene extrusion at edges of trim panel.

NOTE: Spacers and washers are installed between trim panel and doorway frame. Use care not to lose spacers and washers during removal or installation of trim panel.

(5) Remove trim panel attaching screws.

C. Install Trim Panel.

(1) Carefully place panel in position and install attaching screws with spacers and washers between panel and entrance door frame.

(2) Install doorway trim attaching clips in original position as marked in step 5.B.(4).

(3) Install sponge rubber roll and neoprene extrusion at edges of trim panel.

(4) Install buffet No. 5 (refer to Removal/Installation Buffets).

(5) Install doorway trim (refer to Removal/Installation Aft Main Entrance and Service Doorway Trim).

6. Removal/Installation Ceiling Aft Panel (see Figure 202)

A. Equipment Required - None.

B. Remove Ceiling Aft Panel.

(1) Remove EXIT sign (refer to Chapter 33, LIGHTS).

(2) Remove stewardess oxygen outlet (refer to Chapter 35, OXYGEN).

(3) Remove header between aft lavatories doors (refer to Removal/Installation Header, Aft Entrance Area).

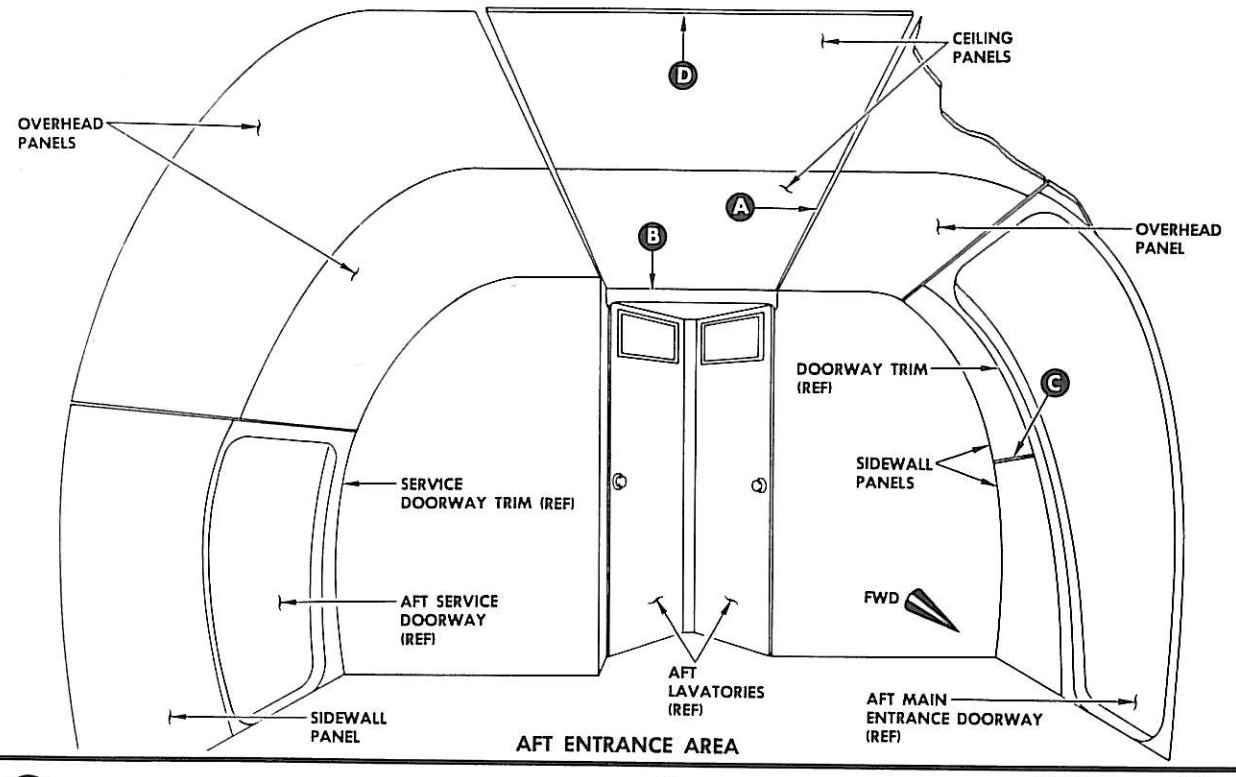
(4) Remove overhead trim panel (above aft service door) (refer to Removal/Installation Overhead Trim Panel - Above Aft Service or Aft Main Entrance Door).

(5) Remove overhead trim panel (aft of aft service door) (refer to Removal/Installation Overhead Trim Panel - Aft of Aft Service Door).

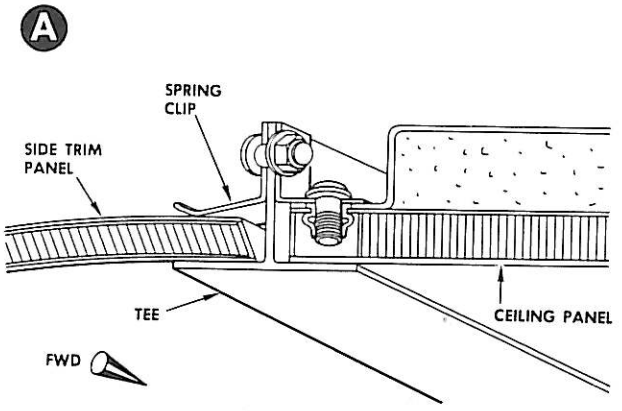
(6) Remove neoprene extrusion and sponge rubber roll at edges of trim panel.

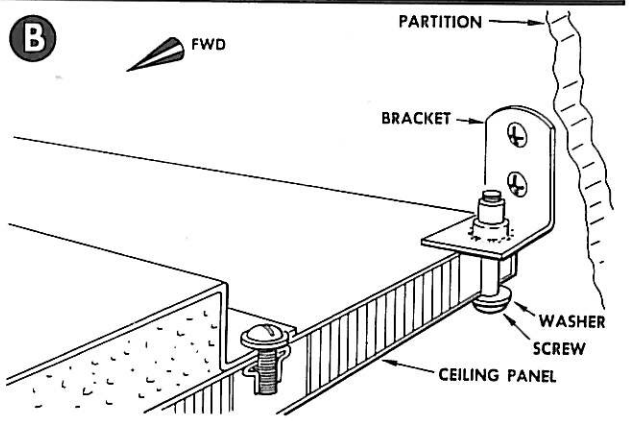
(7) Remove ceiling aft panel attaching screws.

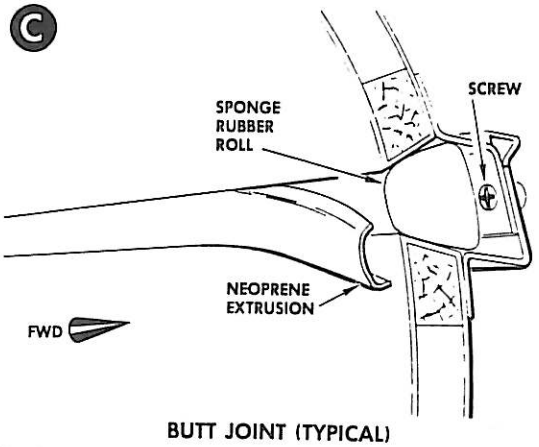
(8) Carefully lower panel, at the same time working clips on left side of ceiling panel away from trim panels on left side.



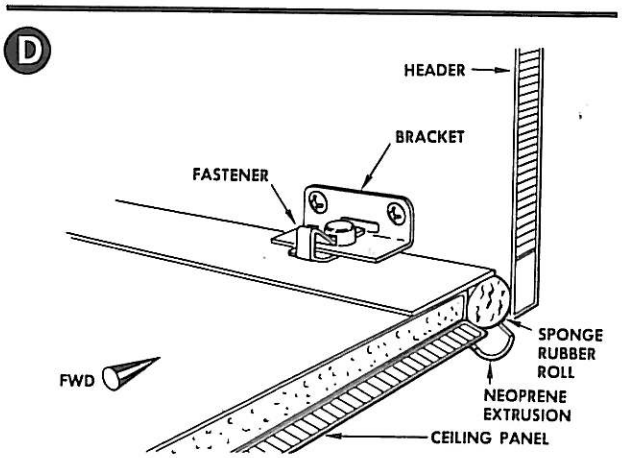
AFT ENTRANCE AREA







BUTT JOINT (TYPICAL)



30.02.25 108

Aft Entrance Area Trim Panels
(Left Side and Ceiling)
Figure 202

(5) Remove buffet vent attaching screws.

NOTE: Spacers and washers are installed between the trim panel and doorway frame. Use care not to lose spacers or washers during removal or installation of trim panel.

(6) Remove trim panel attaching screws.

(7) Carefully remove trim panel.

C. Install Trim Panel.

(1) Carefully place panel in position and install attaching screws with spacers and washers between doorway frame and trim panel.

(2) Install doorway trim attaching clips in original position as marked in step 4.B.(4).

(3) Install buffet vent attaching screws.

(4) Install sponge rubber roll and neoprene extrusion at edges of trim panel.

(5) Install doorway trim (refer to Removal/Installation Aft Main Entrance and Service Doorway Trim).

(6) Install applicable buffet (refer to Removal/Installation Buffets).

5. Removal/Installation Overhead or Sidewall Trim Panel - Aft of Aft Main Entrance Door (see Figure 202)

A. Equipment Required - None.

B. Remove Trim Panel.

(1) Remove doorway trim (refer to Removal/Installation Aft Main Entrance and Service Doorway Trim).

(2) Remove buffet No. 5 (refer to Removal/Installation Buffets).

(3) Remove neoprene extrusion and sponge rubber roll at edges of trim panel.

(4) Mark location of doorway trim attaching clips. Doorway trim fit to acoustical seal is determined by position of attaching clips. Clips must be installed in original position to maintain proper fit between doorway trim and acoustical seal.

B. Remove Trim Panel.

(1) Remove buffet No. 4 (refer to Removal/Installation Buffets).

(2) Remove buffet electrical connector cup attaching screws and remove cup.

(3) Remove neoprene extrusion and sponge rubber roll at edges of trim panel.

(4) Remove trim panel attaching screws.

(5) Carefully remove trim panel attaching screws. Slide panel outboard to remove from clips at ceiling panel.

C. Install Trim Panel.

(1) Carefully place panel in position and install attaching screws. Upper edge of panel is retained by clips.

(2) Install sponge rubber roll and neoprene extrusion at edges of trim panel.

(3) Install buffet water connector cup attaching screws.

(4) Install buffet No. 4 (refer to Removal/Installation Buffets).

4. Removal/Installation Sidewall Trim Panel - Forward or Aft of Aft Service Door (see Figure 201)

A. Equipment Required - None.

B. Remove Trim Panel.

(1) Remove applicable buffet (refer to Removal/Installation Buffets).

(2) Remove doorway trim (refer to Removal/Installation Aft Main Entrance and Service Doorway Trim).

(3) Remove neoprene extrusion and sponge rubber roll at edges of trim panel.

(4) Mark location of doorway trim attaching clips.

NOTE: Doorway trim fit to acoustical seal is determined by position of attaching clips. Clips must be installed in original position to maintain fit between doorway trim and acoustical seal.

(2) Remove stewardess control panel escutcheon and chimes (above aft service door) (refer to Chapter 23, COMMUNICATIONS).

(3) Remove entrance area lights, EMERGENCY EXIT or EXIT sign, and portable emergency exit light (refer to Chapter 33, LIGHTS).

(4) Remove stewardess oxygen outlet (refer to Chapter 35, OXYGEN).

(5) Remove adjustable air inlets (refer to Chapter 21, AIR CONDITIONING).

(6) Remove doorway trim (refer to Removal/Installation Aft Main Entrance and Service Doorway Trim).

(7) Remove neoprene extrusion and sponge rubber roll at edges of trim panel.

NOTE: Spacers and washers are installed between the trim panels and the doorway frames. Use care not to lose spacers or washers during removal or installation of trim panel.

(8) Remove trim panel attaching screws.

(9) Slide panel outboard to remove from clips at ceiling panel.

C. Install Trim Panel.

(1) Carefully place trim panel in position and install attaching screws with spacers and washers between panel and doorway frame.

(2) Install sponge rubber roll and neoprene extrusion at edges of trim panel.

(3) Install doorway trim (refer to Removal/Installation Aft Main Entrance and Service Doorway Trim).

(4) Install adjustable air inlets (refer to Chapter 21, AIR CONDITIONING).

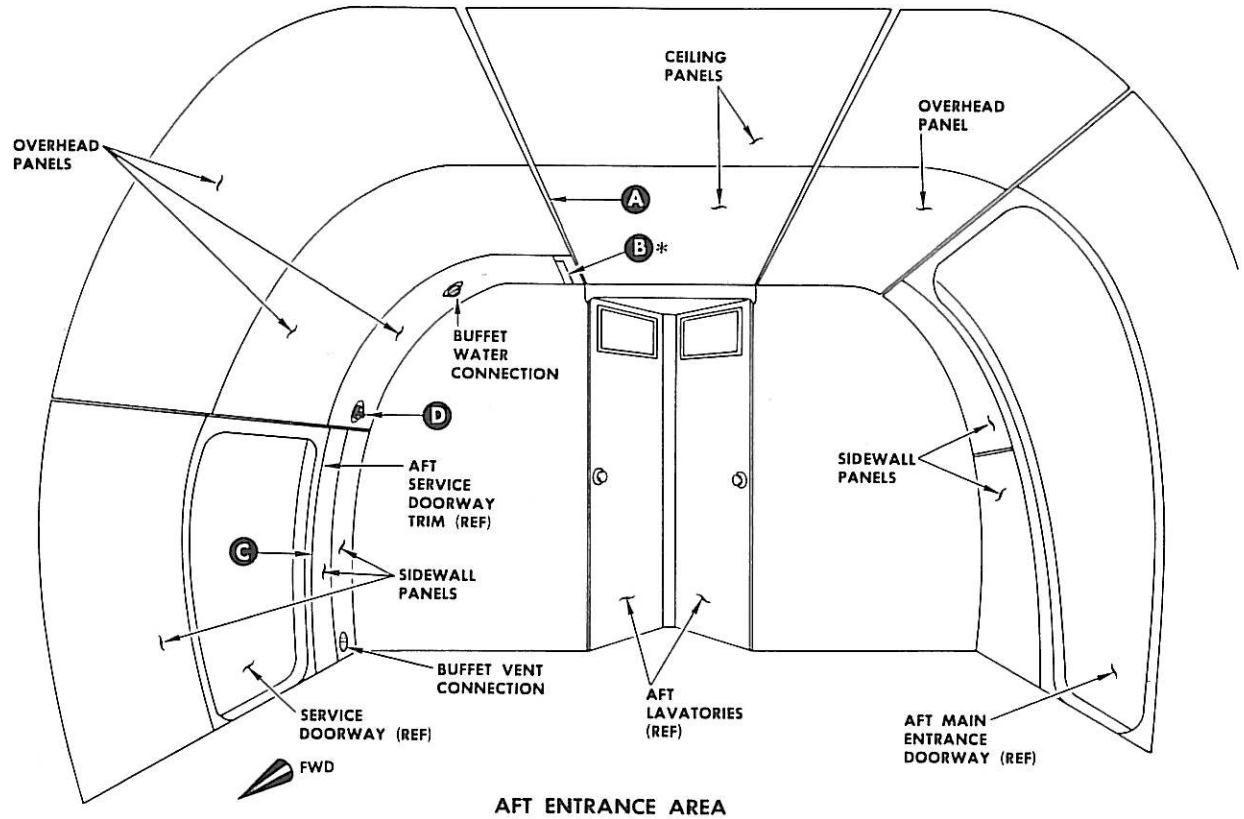
(5) Install stewardess oxygen outlet (refer to Chapter 35, OXYGEN).

(6) Install entrance area lights, EMERGENCY EXIT or EXIT sign, and portable emergency exit lights (refer to Chapter 33, LIGHTS).

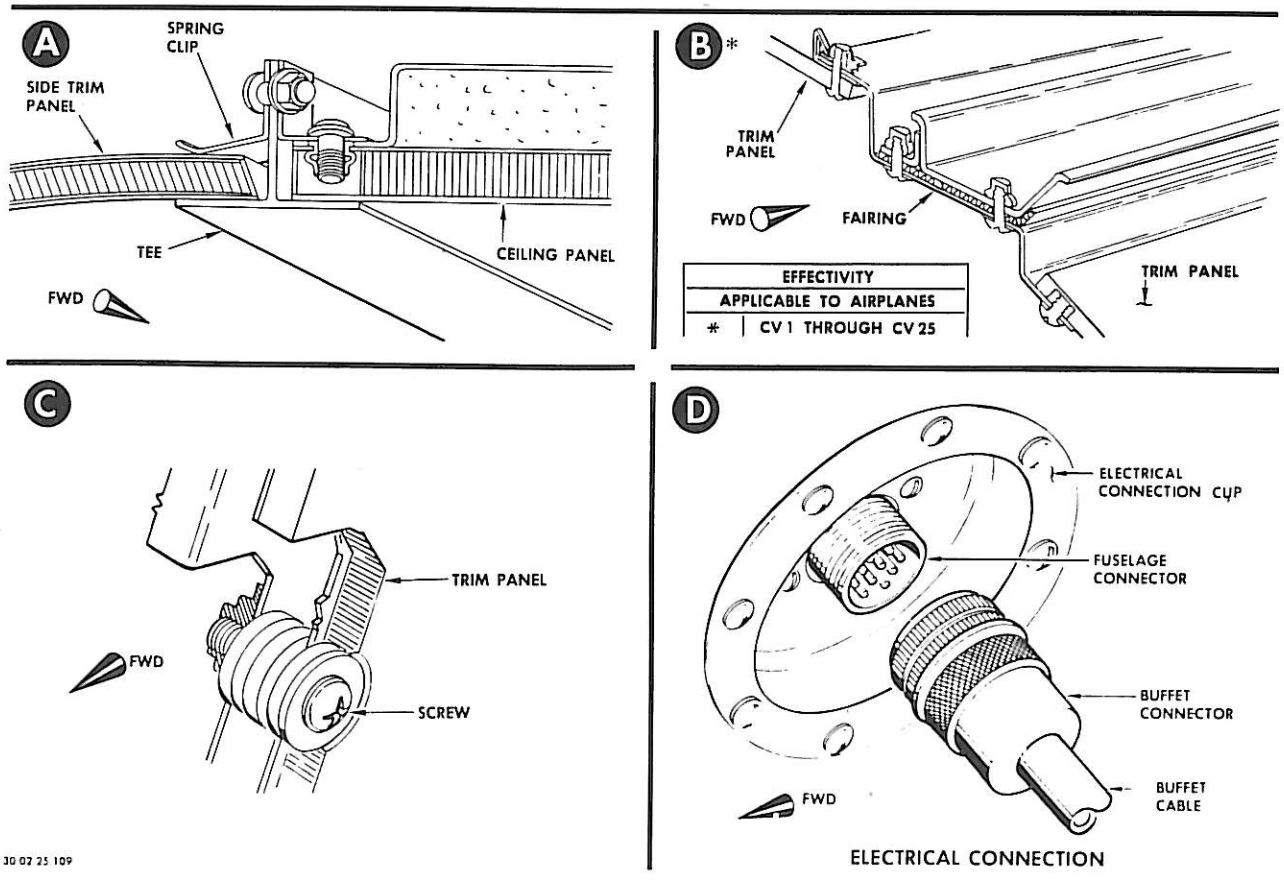
(7) Install stewardess control panel escutcheon and chimes (refer to Chapter 23, COMMUNICATIONS).

3. Removal/Installation Overhead Trim Panel - Aft of Aft Service Door (see Figure 201)

A. Equipment Required - None.



AFT ENTRANCE AREA



30 02 25 109

ELECTRICAL CONNECTION

AFT ENTRANCE AREA TRIM PANELS - MAINTENANCE PRACTICES

1. Removal/Installation Overhead Trim Panel - Forward of Aft Service Door (See Figure 201)

   A. Equipment Required - None.

   B. Remove Trim Panel.

      (1) Remove buffet No. 3 (refer to Removal/Installation Buffets).

      (2) Remove neoprene extrusion and sponge rubber roll at edges of trim panel.

      (3) Remove buffet electrical connector cup.

      (4) Remove entrance area lights (refer to Chapter 33, LIGHTS).

      (5) Remove adjustable air inlet (refer to Chapter 21, AIR CONDITIONING).

      (6) Remove trim panel attaching screws.

      (7) Carefully remove trim panel.

   C. Install Trim Panel.

      (1) Carefully place panel in position and install attaching screws.

      (2) Install adjustable air inlet (refer to Chapter 21, AIR CONDITIONING).

      (3) Install entrance area lights (refer to Chapter 33, LIGHTS).

      (4) Install buffet electrical connector cup.

      (5) Install sponge rubber roll and neoprene extrusion at edges of trim panel.

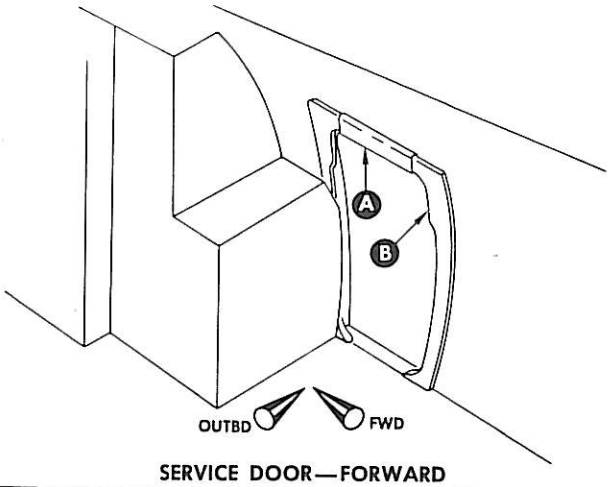
      (6) Install buffet No. 3 (refer to Removal/Installation Buffets).

2. Removal/Installation Overhead Trim Panel - Above Aft Service or Aft Main Entrance Door (see Figure 201)

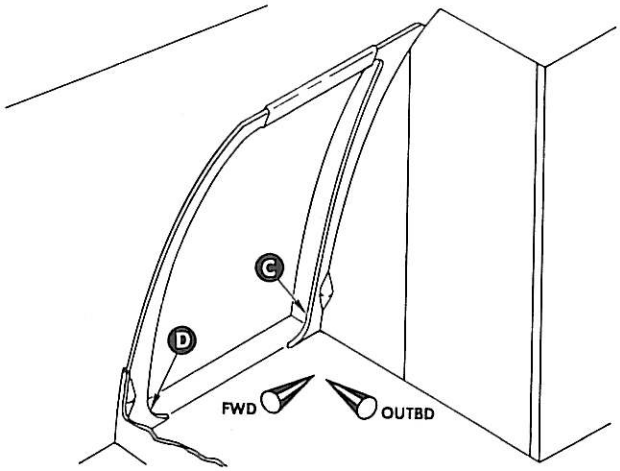
   A. Equipment Required - None.

   B. Remove Trim Panel.

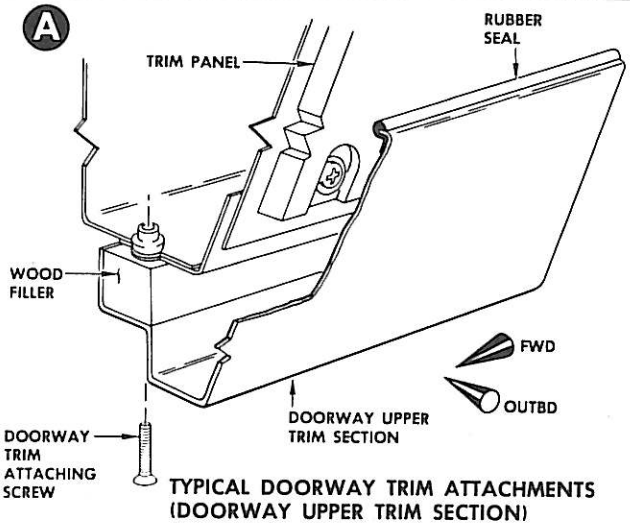
      (1) Remove attaching screws from passenger assist handle (above aft service door) and remove handle.



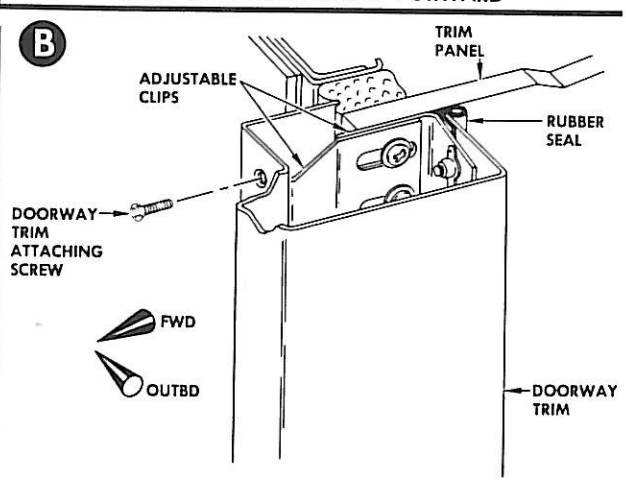
SERVICE DOOR—FORWARD



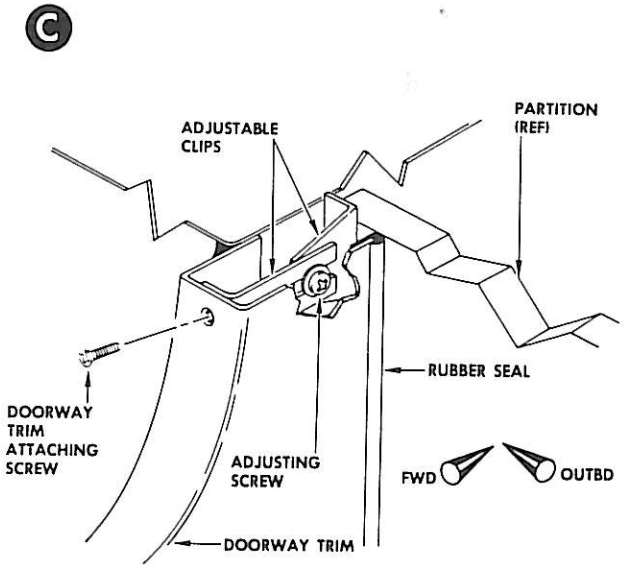
MAIN ENTRANCE DOOR—FORWARD



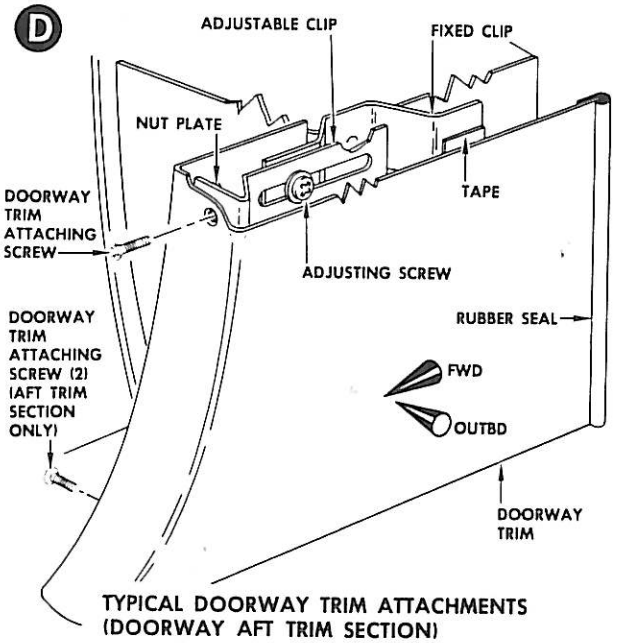
TYPICAL DOORWAY TRIM ATTACHMENTS (DOORWAY UPPER TRIM SECTION)



TYPICAL DOORWAY TRIM ATTACHMENTS (DOORWAY FORWARD AND AFT TRIM SECTIONS)



TYPICAL DOORWAY TRIM ATTACHMENTS (DOORWAY FORWARD TRIM SECTION)



TYPICAL DOORWAY TRIM ATTACHMENTS (DOORWAY AFT TRIM SECTION)

30 02 25 106

9. Removal/Installation Forward Main Entrance and Service Doorway Trim (see Figure 203)

A. Equipment Required.

(1) Sealer - EC1293 (Minnesota Mining and Manufacturing Co.) or equivalent.

(2) Filler - Stafoam, Specification 0-03023, type II, series D (American Latex Corporation) or equivalent.

B. Remove Forward Main Entrance or Service Doorway Trim

(1) Remove threshold lights (main entrance door only) (refer to Chapter 33, LIGHTS).

(2) Remove doorway trim upper section attaching screws and remove trim.

(3) Remove doorway trim forward and aft section attaching screws and remove trim.

C. Install Forward Main Entrance or Service Doorway Trim.

(1) Carefully work side sections of trim into proper position and install attaching screws.

(2) Place upper section of trim in position and install attaching screws.

NOTE: Entire periphery of trim outer edge and door jam must be water repellant. Seal gaps with EC 1293 sealer. Where gaps between door jam and trim exceed 0.12-inch, fill void with Stafoam filler before applying sealer. After sealer has cured, finish to match adjacent trim.

(3) Install threshold lights (main entrance door only) (refer to Chapter 33, LIGHTS).

NOTE: Doorway trim must contact acoustical seal firmly. A maximum acoustical seal compression of 0.060 inch is allowable. Doorway trim forward and aft section attaching clips are adjustable.

8. Removal/Installation Overhead Trim Panel - Above Forward Service Door (see Figure 202)

A. Equipment Required - None.

B. Remove Trim Panel.

(1) Remove EMERGENCY EXIT sign (refer to Chapter 33, LIGHTS).

(2) Remove portable emergency exit light (refer to Chapter 33, LIGHTS).

(3) Remove trim around stewardess control panel (refer to Chapter 23, COMMUNICATIONS).

(4) Remove chimes (refer to Chapter 23, COMMUNICATIONS).

(5) Remove passenger assist handle attaching screws and remove handle.

(6) Remove neoprene extrusion and sponge rubber roll at edges of trim panel.

(7) Remove service doorway trim (refer to Removal/Installation Forward Main Entrance and Service Doorway Trim).

(8) Remove trim panel attaching screws.

(9) Slide panel outboard to remove from clips along upper edge.

(10) Carefully remove panel.

C. Install Trim Panel.

(1) Carefully place panel in position with upper edge of panel inserted in clips.

(2) Install trim panel attaching screws with spacers between panel and service doorway frame.

(3) Install service doorway trim (refer to Removal/Installation Forward Main Entrance and Service Doorway Trim).

(4) Install sponge rubber roll and neoprene extrusion at edges of trim panel.

(5) Install passenger assist handle with attaching screws.

(6) Install trim around stewardess control panel and install chimes (refer to Chapter 23, COMMUNICATIONS).

(7) Install EMERGENCY EXIT sign (refer to Chapter 33, LIGHTS).

(8) Install portable emergency exit light (refer to Chapter 33, LIGHTS).

(5) Install buffet No. 1 or 2 (refer to Removal/Installation Buffets).

(6) Install sponge rubber roll and neoprene extrusion at edges of trim panel.

7. Removal/Installation Overhead Trim Panels - Forward or Aft of Forward Service Door (see Figure 202)

A. Equipment Required - None.

B. Remove Trim Panels.

(1) Remove buffet No. 1 or 2 (refer to Removal/Installation Buffets).

(2) Remove neoprene extrusion and sponge rubber roll at edges of trim panel.

(3) Remove buffet electrical connector cup.

(4) Remove entrance area lights (refer to Chapter 33, LIGHTS).

(5) Remove adjustable air inlets (refer to Chapter 21, AIR CONDITIONING).

(6) Remove trim panel attaching screws.

(7) Slide panel outboard to remove panel from clips along upper edge.

(8) Carefully remove trim panel.

C. Install Trim Panels.

(1) Carefully place panel in position with upper edge of trim panel inserted in clips.

(2) Install trim panel attaching screws.

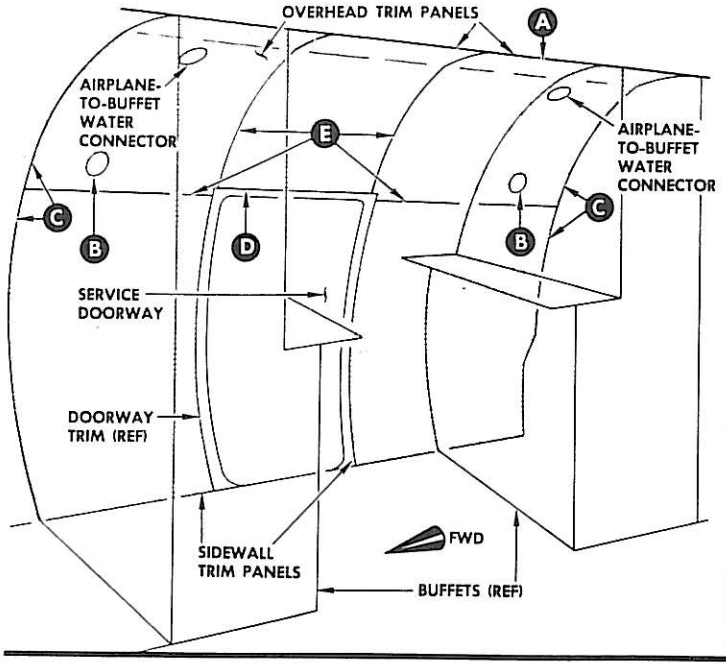
(3) Install adjustable air inlets (refer to Chapter 21, AIR CONDITIONING).

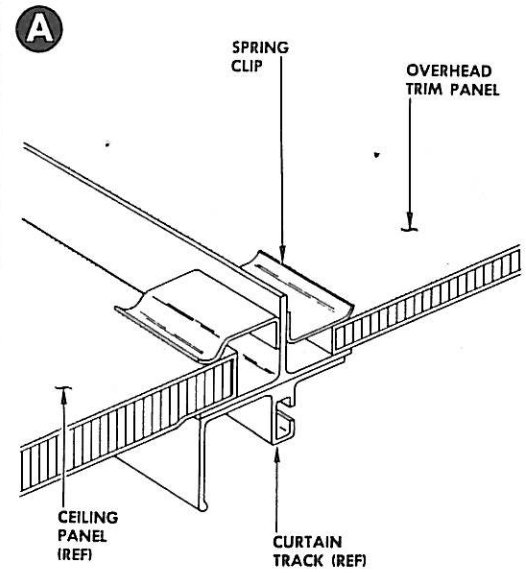
(4) Install entrance area lights (refer to Chapter 33, LIGHTS).

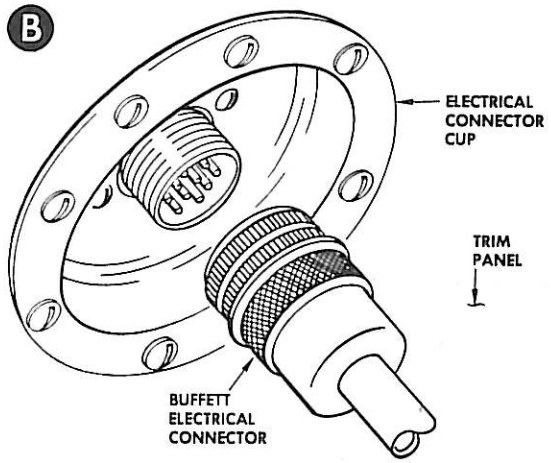
(5) Install buffet electrical connector cup.

(6) Install buffet No. 1 or 2 (refer to Removal/Installation Buffets).

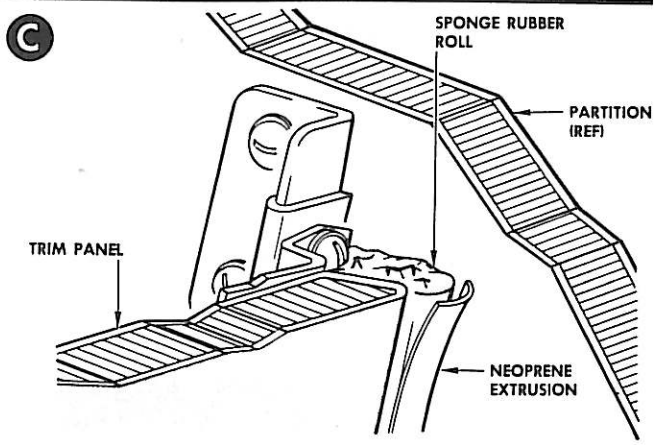
(7) Install sponge rubber roll and neoprene extrusion at edges of trim panel.



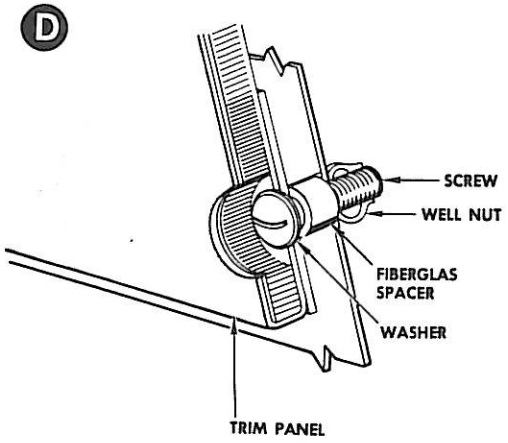




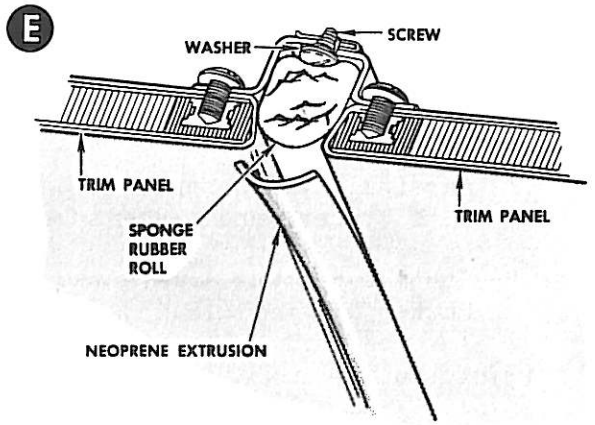
AIRPLANE-TO-BUFFET ELECTRICAL CONNECTOR



TRIM PANEL-TO-PARTITION JOINT



TRIM PANEL FASTENER (ABOVE DOORWAY)



TRIM PANELS BUTT JOINT (TYPICAL)

30.02.25.105

C. Install Trim Panel.

(1) Carefully place panel in position and install attaching screws.

(2) Install passenger warning sign cover at forward edge of trim panel. Align cover with spring clips and push to install.

(3) Install sponge rubber roll and neoprene extrusion at edges of trim panel.

6. Removal/Installation Sidewall Trim Panels - Forward or Aft of Forward Service Door (see Figure 202)

A. Equipment Required - None.

B. Remove Trim Panels.

(1) Remove buffet No. 1 or 2 (refer to Removal/Installation Buffets).

(2) Remove service doorway trim (refer to Removal/Installation Forward Main Entrance and Service Doorway Trim).

(3) Remove neoprene extrusion and sponge rubber roll at edges of trim panel.

(4) Remove screws at buffet vent.

(5) Mark location of doorway trim attaching clips. Doorway trim fit to door acoustical seal is determined by position of attaching clips. Clips must be installed in original position.

(6) Remove trim panel attaching screws.

NOTE: Spacers and washers are installed between trim panel and doorway frame. Use care not to lose spacers and washers during removal or installation of the panel.

(7) Carefully remove trim panel.

C. Install Trim Panels.

(1) Carefully place panel in position and install attaching screws with spacers and washers between panel and doorway frame.

(2) Install doorway trim attaching clips in original position as marked in step 6.B.(5).

(3) Install screws at buffet vent.

(4) Install service doorway trim (refer to Removal/Installation Forward Main Entrance and Service Doorway Trim).

4. Removal/Installation Ceiling Forward Trim Panel (see Figure 201)

A. Equipment Required - None.

B. Remove Trim Panel.

(1) Open PASS WARN SIGN and LAV OCCUP WARN LTS circuit breakers on main circuit breaker panel.

(2) Remove neoprene extrusion and sponge rubber roll at edges of trim panel.

(3) Remove passenger warning sign cover at aft edge of panel. Insert finger in holes at each end of cover and pull to remove cover.

(4) Lower forward end of trim panel and disconnect electrical connector at right end of passenger warning sign.

(5) Remove trim panel attaching screws and carefully remove trim panel.

C. Install Trim Panel.

(1) Position aft end of trim panel and connect electrical connector at right end of passenger warning light.

(2) Raise forward end of trim panel into position and install attaching screws.

(3) Install passenger warning sign cover. Align cover with spring clips and push to install.

(4) Close PASS WARN SIGNS and LAV OCCUP WARN LTS circuit breakers on main circuit breaker panel.

(5) Install sponge rubber roll and neoprene extrusion at edges of trim panel.

5. Removal/Installation Ceiling Aft Trim Panel (see Figure 201)

A. Equipment Required - None.

B. Remove Trim Panel.

(1) Remove neoprene extrusion and sponge rubber roll at edges of trim panel.

(2) Remove passenger warning sign cover at forward edge of panel. Insert finger in holes at each end of cover and pull to remove cover.

(3) Remove trim panel attaching screws.

(4) Carefully remove trim panel.

2. Removal/Installation Overhead Trim Panel - Aft of Main Entrance Door (see Figure 201)

A. Equipment Required - None.

B. Remove Trim Panel.

(1) Remove doorway trim (refer to Removal/Installation Forward Main Entrance and Service Doorway Trim).

(2) Remove neoprene extrusion and sponge rubber roll at edges of trim panel.

(3) Remove trim panel attaching screws.

(4) Carefully remove trim panel.

C. Install Trim Panel.

(1) Carefully place panel in position and install attaching screws.

(2) Install doorway trim (refer to Removal/Installation Forward Main Entrance and Service Doorway Trim).

(3) Install sponge rubber roll and neoprene extrusion at edges of trim panel.

3. Removal/Installation Sidewall Trim Panel - Aft of Main Entrance Door (see Figure 201)

A. Equipment Required - None.

B. Remove Trim Panel.

(1) Remove doorway trim (refer to Removal/Installation Forward Main Entrance and Service Doorway Trim).

(2) Remove neoprene extrusion and sponge rubber roll at edges of trim panel.

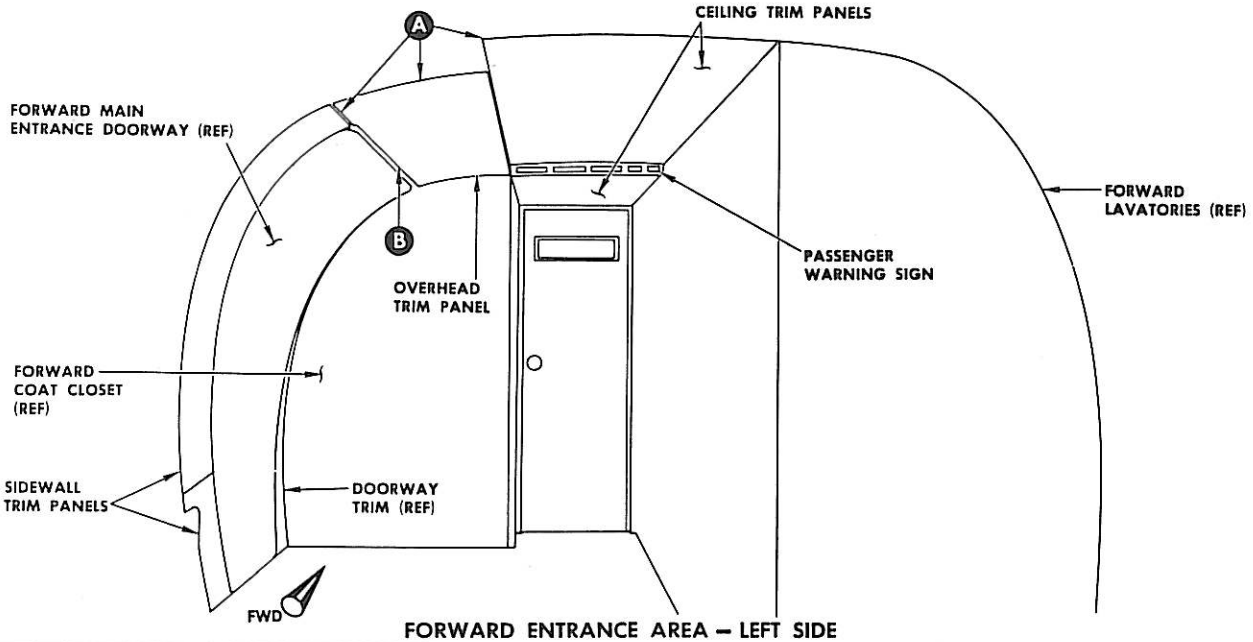
(3) Remove trim panel attaching screws.

(4) Carefully remove trim panel.

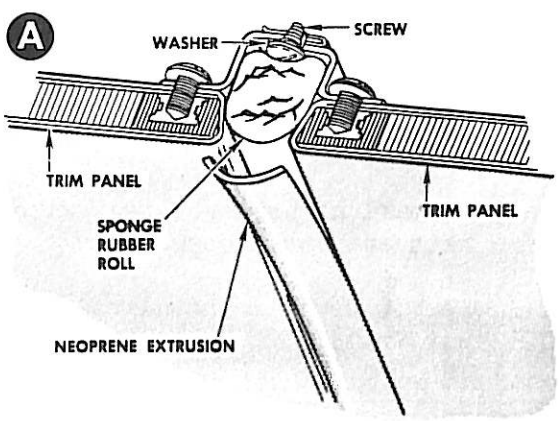
C. Install Trim Panel.

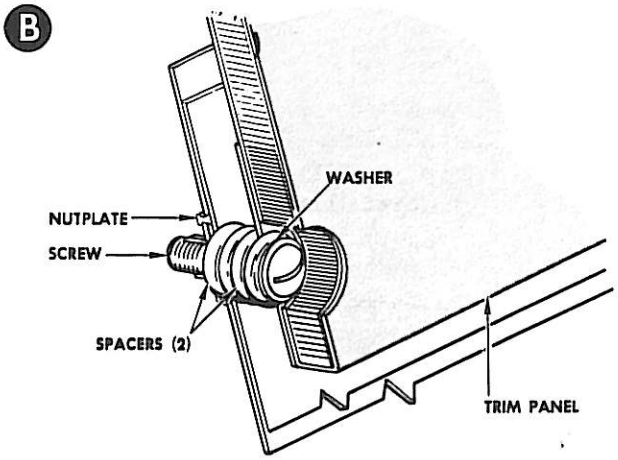
(1) Carefully place panel in position and install attaching screws.

(2) Install sponge rubber roll and neoprene extrusion at edges of trim panel.



FORWARD ENTRANCE AREA – LEFT SIDE





30.02.25.104

BUTT JOINT (TYPICAL)

FORWARD ENTRANCE AREA TRIM PANELS - MAINTENANCE PRACTICES

1. Removal/Installation Overhead Trim Panel - Above Main Entrance Door (see Figure 201)

   A. Equipment Required - None.

   B. Remove Trim Panel.

      (1) Remove entrance area lights (refer to Chapter 33, LIGHTS).

      (2) Remove EMERGENCY EXIT sign (refer to Chapter 33, LIGHTS).

      (3) Remove portable emergency exit light (refer to Chapter 33, LIGHTS).

      (4) Remove stewardess oxygen outlet (refer to Chapter 35, OXYGEN).

      (5) Remove entrance door trim (refer to Removal/Installation Forward Main Entrance and Service Doorway Trim).

      (6) Remove neoprene extrusion and sponge rubber roll at edges of trim panel.

      (7) Remove trim panel attaching screws.

          NOTE: Spacers and washers are installed between trim panel and doorway frame. Use care not to lose spacers and washers during removal or installation of panel.

      (8) Carefully remove panel.

   C. Install Trim Panel.

      (1) Carefully place panel in position and install attaching screws with spacers and washers between panel and main entrance doorway frame.

      (2) Install main entrance doorway trim (refer to Removal/Installation Forward Main Entrance and Service Doorway Trim).

      (3) Install sponge rubber roll and neoprene extrusion at edges of trim panel.

      (4) Install stewardess oxygen outlet (refer to Chapter 35, OXYGEN).

      (5) Install EMERGENCY EXIT sign (refer to Chapter 33, LIGHTS).

      (6) Install entrance area lights (refer to Chapter 33, LIGHTS).

      (7) Install portable emergency exit light (refer to Chapter 33, LIGHTS).

(6) Install tread plates.

(7) Install seat floor track vinyl covers.

(6) Clean surface of buffet and carpet with cheese cloth saturated with solvent (Naphtha), where carpet butts against lower edge of buffet.

WARNING: PROVIDE ADEQUATE VENTILATION.

(7) Apply bead of sealant (Q-2-0078) where carpet joins lower edge of buffet.

(8) Install tread plates and threshold plates.

2. Removal/Installation Entrance Area Wool Carpet and Pad (see Figure 201)

A. Equipment Required.

(1) Filler - Permagum 576.1 (Hubbard Corp.) or equivalent.

(2) Tape - No. 50 (Permacel Tape Corp.) or equivalent.

(3) Tape - No. 471 (Minnesota Mining and Mfg.) or equivalent.

(4) Tape - No. 472 (Minnesota Mining and Mfg.) or equivalent.

B. Remove Wool Carpet.

(1) Remove tread plates.

(2) Remove seat floor track vinyl covers.

(3) Peel carpet and vinyl tape from double-face tape on pad.

(4) Peel pad and vinyl tape from double-face tape on floor panels.

C. Install Wool Carpet.

NOTE: Floor must be watertight before carpet is installed.

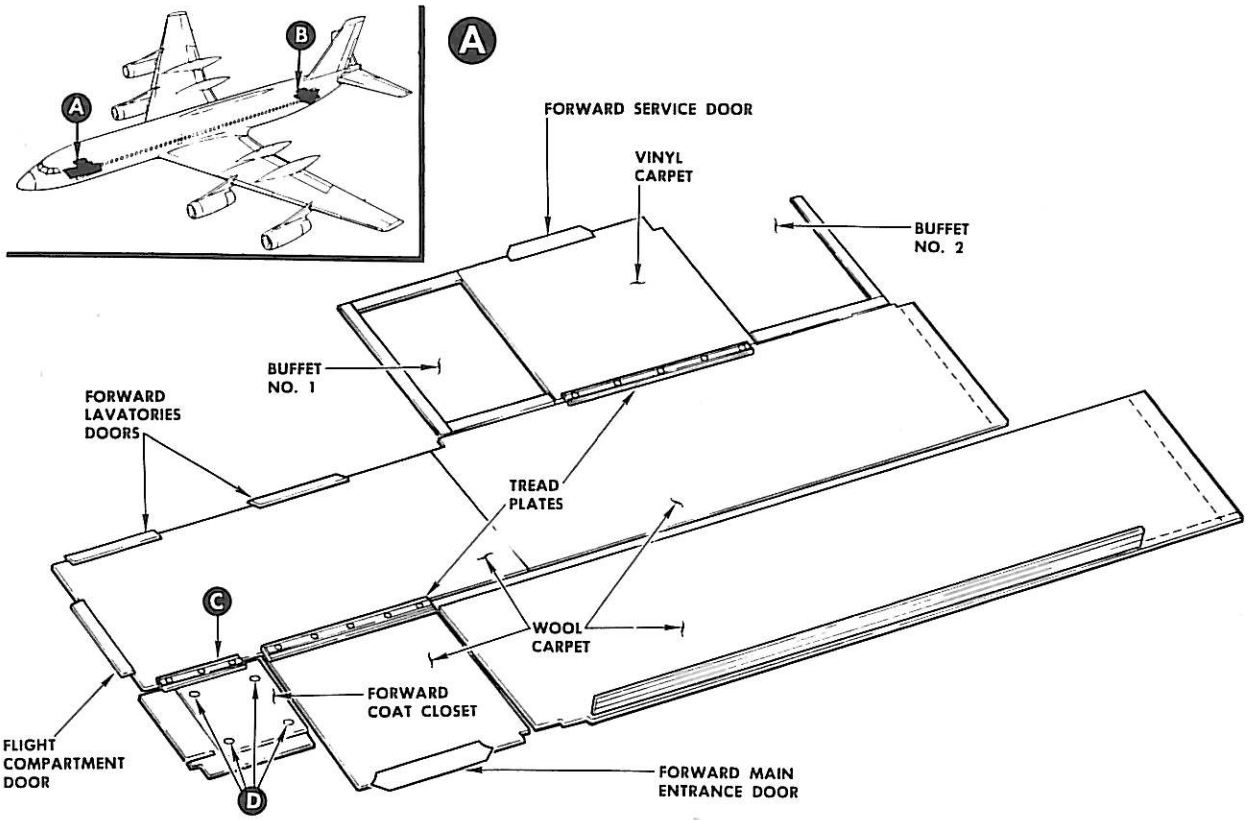
(1) Check condition of filler (Permagum 576.1) at floor joints and replace as necessary.

(2) Check condition of tape (No. 472) covering screw heads and replace as necessary.

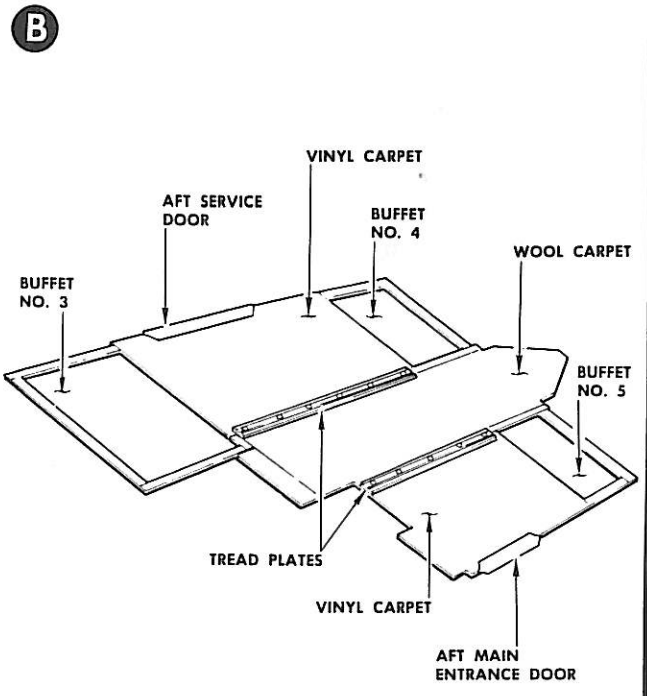
(3) Check condition of vinyl (No. 471) and double-face (Permacel No. 50) tape and replace as necessary.

(4) Roll pad and place one end in position. Unroll pad and press firmly to double-face tape as pad is unrolled.

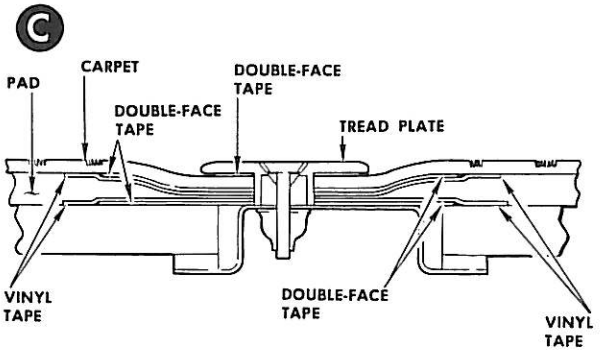
(5) Roll carpet and place one end in position. Unroll and press firmly to double-face tape as carpet is unrolled.

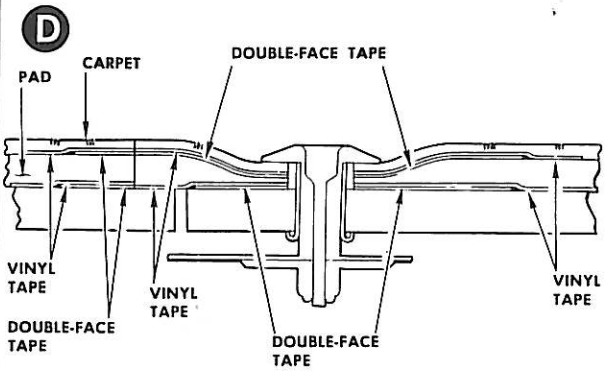


FORWARD ENTRANCE AREA CARPET



AFT ENTRANCE AREA CARPET





30 02 25 089

ENTRANCE AREA FLOOR COVERING - MAINTENANCE PRACTICES

1. Removal/Installation Entrance Area Vinyl Carpet (see Figure 201)

A. Equipment Required.

(1) Sealant - Q-2-0078 (Dow Corning Corp.) or equivalent.

(2) Filler - Permagum 576.1 (Hubbard Corp.) or equivalent.

(3) Cement - Bostik 4040 (BB Chemical Co.) or equivalent.

(4) Tape - No. 50 (Permacel Tape Corp.) or equivalent.

(5) Tape - No. 472 (Minnesota Mining and Mfg.) or equivalent.

(6) Solvent - Naphtha (Specification TT-N-95a).

(7) Cheese cloth.

B. Remove Vinyl Carpet.

(1) Remove tread plates and threshold plates.

NOTE: Vinyl carpet is cemented to floor panel at buffets and attached to floor panel with double-face tape at doorway, tread plates, and where vinyl carpet butts against partitions.

(2) Starting at one corner, peel carpet and double-face tape from floor panel.

C. Install Vinyl Carpet.

NOTE: Floor must be watertight before carpet is installed.

(1) Check condition of filler (Permagum 576.1) at floor joints and replace as necessary.

(2) Check condition of tape (No. 472) covering screw heads and replace as necessary.

(3) Check condition of double-face tape (Permacel No. 50) and replace as necessary.

(4) Apply cement (Bostik 4040) to floor panel at lower edges of buffets.

(5) Place carpet in position and press firmly to cement and double-face tape.

(3) Position lower cushion key hole slots on retainers and slide cushion down.

(4) Install screws securing lower cushion. Screws are installed from aft side of partition.

5. Inspection/Check Stewardess Seats

A. Check Stewardess Seats.

Under strong light visually check all parts as applicable, for scored or stripped threads, cracks, nicks, scratches, dents, corrosion, and excessive wear. Perform the following checks periodically:

(1) Seat covers for security of attachment.

(2) Seat covers for wear, tears, rips and cleanliness.

(3) Cushions for deterioration.

(4) Pivot bolts of forward facing seat for properly installed cotter pins.

(5) Seats and associated structure for cracks, paying particular attention to the area around pivot bolts.

(6) Seat and shoulder belts for rips, tears and excessive wear.

(7) Seat and shoulder belt attachments for cracks, excessive wear and security of attachment.

(3) Remove two bolts securing seat outboard pivot shaft housing to belt frames.

(4) Move seat outboard until seat inboard pivot shaft clears seat leg assembly.

(5) Raise inboard end of seat and move seat inboard to remove seat.

C. Install Stewardess Double Seat.

(1) Turn seat outboard pivot shaft housing clockwise to cause tension on seat return spring and insert housing between belt frames.

(2) Move seat outboard; align seat inboard pivot shaft with hole in seat leg assembly and move seat inboard.

(3) Install bolts in seat outboard pivot shaft housing.

(4) Install washer, nut, and cotter pin on seat inboard pivot shaft.

(5) Install fairing at inboard and outboard ends of seat.

4. Removal/Installation Stewardess Double Seat Back Cushions (see Figure 202)

A. Equipment Required - None.

B. Remove Seat Back Upper and Lower Cushions.

(1) Remove screws from lower cushion (screw heads are on aft face of partition).

(2) Slide lower cushion up to release key hole slots along upper edge of cushion and remove cushion.

(3) Remove screw at center of upper cushion lower edge.

NOTE: Screw is not visible. Push up on cushion to gain access to screw.

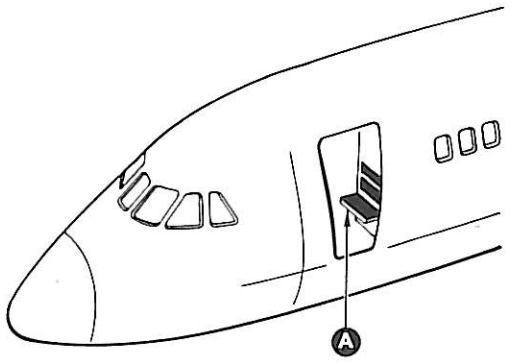
(4) Slide upper cushion up to release key hole slots from retainers on partition and remove cushion.

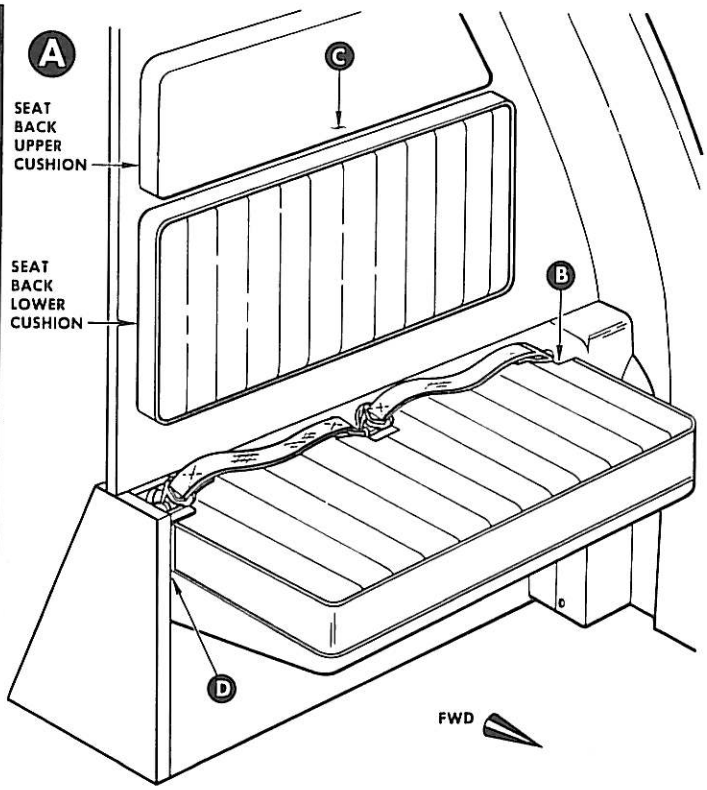
C. Install Seat Back Upper and Lower Cushions.

(1) Position upper cushion key hole slots on retainers and slide cushion down.

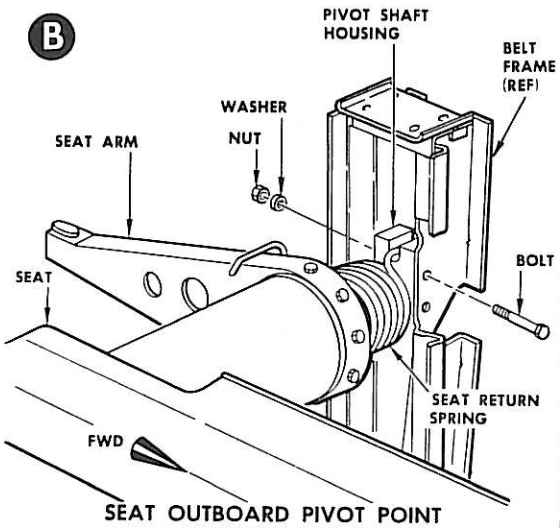
(2) Install screw at center of cushion lower edge.

NOTE: Screw hole is not visible. Push up on cushion to gain access to screw hole in back plate.

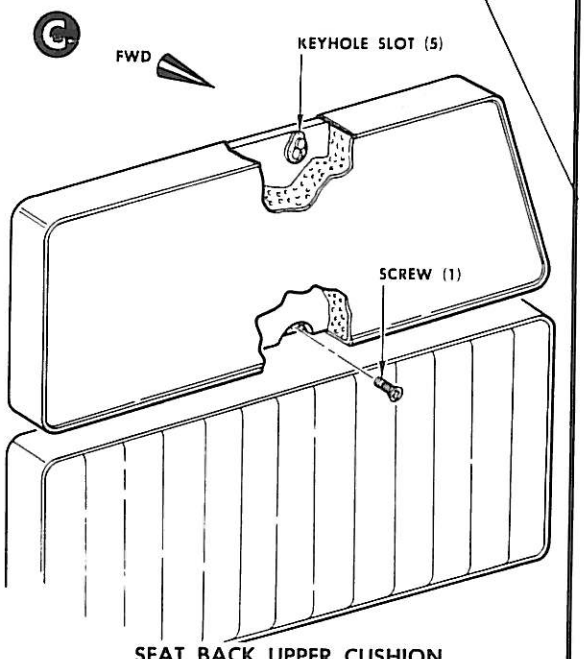




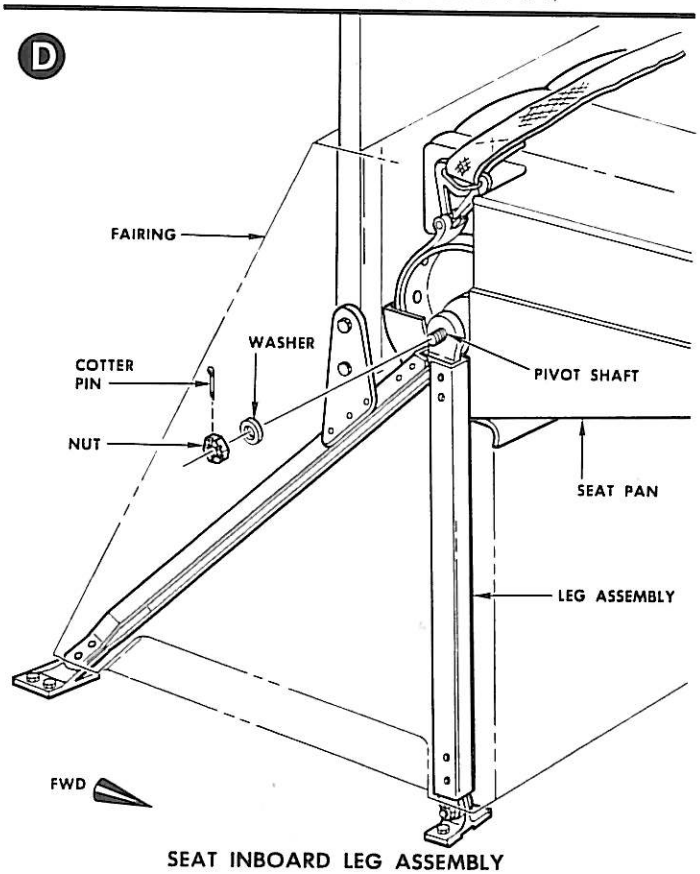
STEWARDESS SEAT (DOUBLE TYPE)



SEAT OUTBOARD PIVOT POINT (FAIRING REMOVED)



SEAT BACK UPPER CUSHION



SEAT INBOARD LEG ASSEMBLY

30 02 25 098

(2) Loosen each shoulder harness strap at buckle and pull through slots.

(3) Unclip seat belts from sides of seat.

(4) Remove screws from seat back cover, and remove cover and cushion.

(5) Remove screws from seat cushion cover edges, and remove cover and cushion.

(6) Remove cotter pins from seat and leg pivot bolts.

(7) Remove attaching nuts, washers, and seat pivot bolts.

(8) Lower seat to floor.

(9) Remove attaching nuts, washers, and leg pivot bolts.

C. Install Forward Facing Seat.

(1) Position seat to align pivot brackets with mounting holes in structure. Insert seat pivot bolts with washers on either side of pivot bracket. Install nut on seat pivot bolts and safety with cotter pins.

(2) Place diagonal legs in position to attach to structure.

(3) Insert leg pivot bolts through legs and structure with washers installed between each leg and structure. Divide washers as necessary to properly position leg. Install nut on each leg pivot bolt and safety with cotter pin.

(4) Place seat cushion in position and, using attachment screws, install seat cushion cover.

(5) Place seat back cushion in position and, using attachment screws, install cushion cover.

(6) Clip seat belts to sides of seat.

(7) Insert end of each shoulder strap through slot at top of seat back. Buckle shoulder straps.

(8) Fold seat up to stowed position.

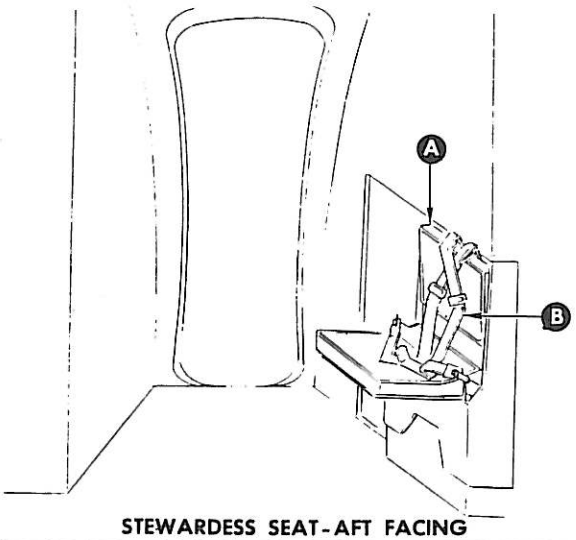
3. Removal/Installation Stewardess Double Seat (see Figure 202)

A. Equipment Required - None.

B. Remove Stewardess Double Seat.

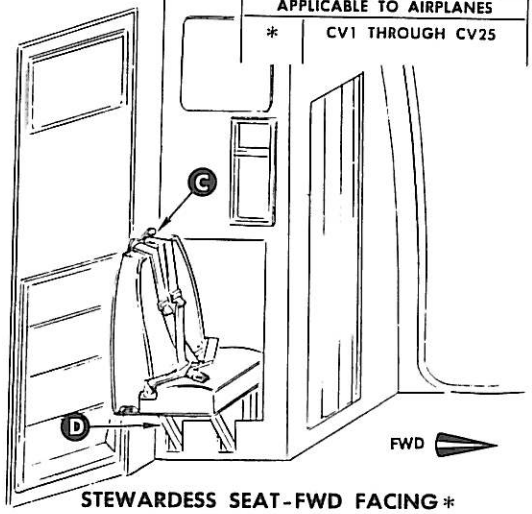
(1) Remove fairing at inboard and outboard ends of seat.

(2) Remove cotter pin and nut on seat inboard pivot shaft.

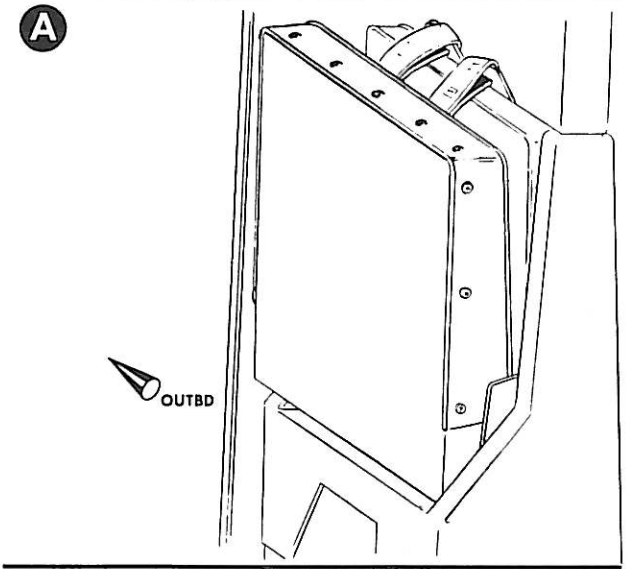


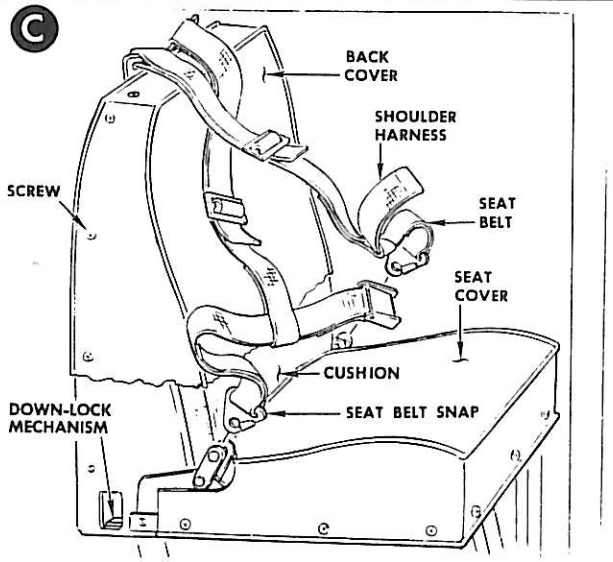
STEWARDESS SEAT-AFT FACING

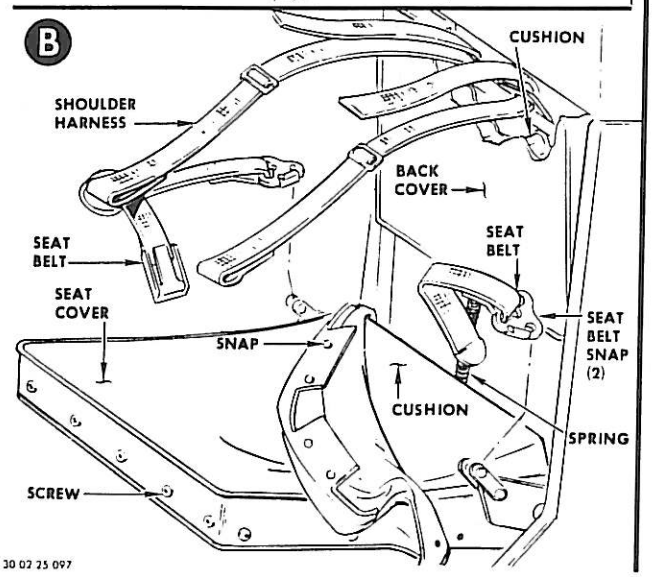
EFFECTIVITY
APPLICABLE TO AIRPLANES
* CV1 THROUGH CV25

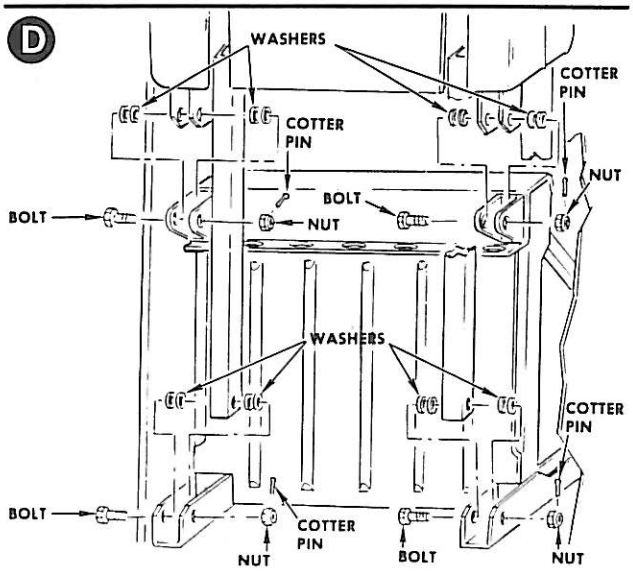


STEWARDESS SEAT-FWD FACING *









STEWARDESS SEATS - MAINTENANCE PRACTICES

1. Removal/Installation Stewardess Aft Facing Seats (see Figure 201)

   A. Equipment Required - None.

   B. Remove Aft Facing Seats.

      (1) Lower seat to horizontal position.

      (2) Loosen each shoulder strap at buckle and pass end of strap through slot in retaining bracket, disconnecting shoulder strap from seat.

      (3) Unclip seat belts from sides of seat.

      (4) Unsnap seat back along top and bottom and remove seat back.

      (5) Unsnap seat cushion cover along back of seat, remove screws from seat cover sides and front, and remove seat cushion and cover.

      (6) Remove seat fold-up spring.

      (7) Remove two bolts and spacers from seat tray hinges, and pull out seat tray to remove.

   C. Install Aft Facing Seats.

      (1) Position seat tray between supporting structure at the proper level.

      (2) Install seat tray, using attachment bolts and spacers.

      (3) Install seat fold-up spring.

      (4) Fasten seat back to back of seat. Place cushion in seat tray, fasten seat cover snaps along back of seat tray, and fasten seat cover sides and front with screws.

      (5) Clip seat belts to sides of seat.

      (6) Pass each shoulder strap through slot at top of seat back and buckle strap.

      (7) Lift seat to raised position.

2. Removal/Installation Stewardess Forward Facing Single Seat (see Figure 201) (Applicable to Airplanes CV1 Through CV25.)

   A. Equipment Required - None.

   B. Remove Forward Facing Seat.

      (1) Fold seat down to sitting position.

5. Floor Covering (see 25-3-3, Figures 201 and 202)

Wool carpet is installed in the forward entrance area (except in the vicinity of the buffets) and in the center aisle of the aft entrance area. The wool carpet is attached to the pad and the pad to the floor with double-face tape (adhesive on both sides). Tread plates are installed where the wool carpet joins the vinyl carpet. Vinyl carpet is used at the service doors and at the aft main entrance door. The vinyl carpet is attached directly to the floor with double-face tape.

6. Side and Ceiling Trim Panels

The trim panels in the entrance areas are a sandwich of 1/4-inch Spongex between layers of fiberglass cloth. The interior surface of each panel is covered with a vinyl fabric to match the decor of the area.

ENTRANCE AREAS - DESCRIPTION AND OPERATION

1. General

The forward entrance area is located between the flight compartment and the passenger cabin. The rear entrance area is located between the passenger cabin and the aft lavatories. Both entrance areas are equipped with buffet units, coat closets, stewardess seats, stewardess control panels and emergency equipment.

The buffet areas are subject to spillage in the preparation of food and drink, and to water dripping from wet clothing during inclement weather; therefore, the floor panels are sealed to protect the inner structure of the airplane.

2. Buffets

A. General.

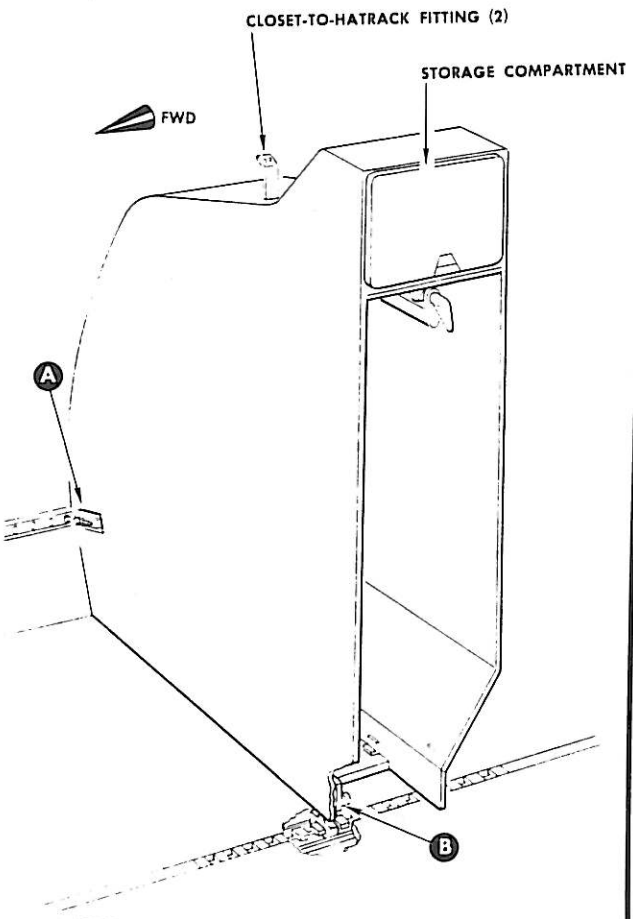
Five buffets are installed in the airplane. Buffets No. 1 and No. 2 are located forward and aft of the forward service door, and buffets No. 3 and No. 4 are located forward and aft of the aft service door, respectively. Buffet No. 5 is located aft of the aft main entrance door. The buffets on the right side of the airplane face each other and curtains are installed on the aisle side between the buffets to close off the working areas. The buffets are designed for maximum utility in a minimum space. A stowage cabinet for buffet service items is installed on the left side of the airplane directly opposite the cabin forward right-hand movable coat closet.

3. Stewardess Control Panels

A control panel is located in each buffet area above the service doors. The panels enable the stewardess to control the cabin lights and to monitor the passenger and crew call systems. Interphone stations are located in the forward main entrance area on the aft face of the forward coat closet, and in the rear entrance area on the inboard side of the aft coat closet. Both of the two stations include facilities for communication with other members of the crew and for public address announcements. For additional information concerning the interphone and the call system refer to Chapter 23, COMMUNICATIONS.

4. Stewardess Seats

A double seat for the stewardesses is attached to the forward side of the lounge forward partition located just aft of the forward main entrance and an aft facing single seat is attached to the cabin aft bulkhead, just inside the rear entrance door. All stewardess seats are cushioned and upholstered, and are equipped with back rests and safety belts; each can be folded for stowage when not in use.

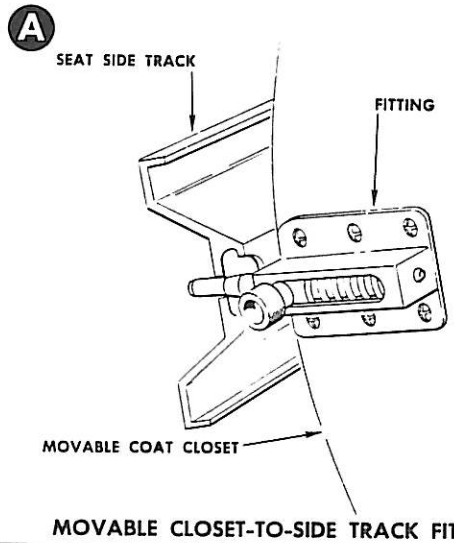


NOTE:

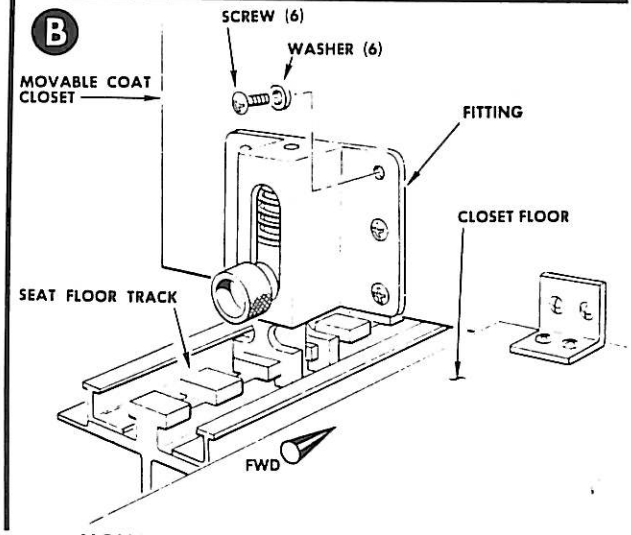
MOVEABLE COAT CLOSETS CAN BE LOCATED TO SUIT SEATING CONFIGURATION.

MOVABLE COAT CLOSET (RIGHT-HAND)

22.02.25.158A



MOVABLE CLOSET-TO-SIDE TRACK FITTING



MOVABLE CLOSET-TO-FLOOR TRACK FITTING

COAT CLOSETS - MAINTENANCE PRACTICES

1. Removal/Installation Movable Coat Closet (see Figure 201)

   A. Equipment Required - None.

   B. Remove Movable Coat Closet.

      (1) Remove attaching screws and nuts from two closet-to-hatrack attaching clips at closet and hatrack and remove clips.

      NOTE: Step (2) applies to right-hand movable closet only.

      (2) Disconnect wiring to movable coat closet passenger warning sign lights at quick-disconnect above hatrack.

      (3) Release quick-disconnects at passenger seat floor and side track.

      (4) Remove coat closet.

   C. Install Movable Coat Closets.

      (1) Position closet at desired location. Insert closet outboard side attach fittings in passenger seat side track.

      (2) Align closet inboard lower corner attach fitting with cut-out in passenger seat floor track. Move closet forward or aft until attach fitting pin enters hole in seat track.

      (3) Install screws and nuts at closet-to-hatrack attach fittings.

      NOTE: Step (4) applies to right-hand closet only.

      (4) Connect wiring to movable coat closet passenger warning lights at quick-disconnect above hatrack.

(13) All warning lights shall extinguish and no power shall be supplied to pin B and J in movable coat closet receptacles.

(7) Close PASS WARNING SIGNS circuit breaker on main circuit breaker panel.

7. Removal/Installation Lavatory RETURN TO CABIN Light Bulbs (see Figure 202)

A. Refer to Removal/Installation Movable Coat Closet Passenger Warning Sign Light Bulbs.

8. Removal/Installation Lavatory RETURN TO CABIN Signs (see Figure 202)

A. Refer to Removal/Installation Movable Coat Closet Passenger Warning Signs.

9. Adjustment/Test Passenger Warning Lights

A. Equipment Required - ac voltmeter.

B. Preparation - Provide source of ac electrical power (refer to Chapter 24, ELECTRICAL POWER).

C. Test Passenger Warning Lights.

(1) Place NO SMOKING switch on pilots' overhead switch panel in ON position.

(2) NO SMOKING lights shall illuminate in all signs.

(3) Check that 28-volt ac power is supplied to pin C in movable coat closet receptacles.

(4) Check that no voltage is supplied to other pins in movable coat closet receptacles.

(5) Place NO SMOKING switch in OFF position.

(6) All warning lights shall extinguish and no power shall be supplied to pin C in movable coat closet receptacles.

(7) Place SEAT BELTS switch in ON position.

(8) FASTEN SEAT BELTS lights shall illuminate in all signs.

(9) RETURN TO CABIN lights shall illuminate in all lavatories.

(10) Check that 28-volt ac power is supplied to pin B in movable coat closet receptacles.

(11) Check that no power is supplied to other pins in movable coat closet receptacles.

(12) Place SEAT BELTS switch in OFF position.

(3) Align fasteners on sign escutcheon with receptacles in air distribution grill, and push to install.

6. Removal/Installation Lounge Area Passenger Warning Sign

A. Equipment Required - None.

B. Remove Passenger Warning Sign.

(1) Open PASS WARNING SIGNS circuit breaker on main circuit breaker panel.

(2) Remove buffet service cabinet.

(3) Remove window trim panels as necessary (refer to Removal/Installation Window Trim Panels).

(4) Remove trim panels on lower side of hatrack.

NOTE: Panels are flexible. Pull down on one end of panel to remove.

(5) Remove air distribution grill attaching screws.

CAUTION: SUPPORT GRILL TO PREVENT DAMAGE TO WIRING.

(6) Disconnect wiring from light receptacles.

(7) Remove light receptacle retaining nuts.

(8) Remove light receptacle.

NOTE: Light receptacles retain passenger warning signs.

(9) Remove passenger warning signs.

C. Install Passenger Warning Sign.

(1) Place sign in position, insert light receptacle through sign and install retaining nuts on light receptacle.

(2) Connect wiring to light receptacle.

(3) Install air distribution grill attaching screws.

(4) Install trim panels on lower side of hatrack

(5) Install window trim panels (refer to Removal/Installation Trim Panels).

(6) Install buffet service cabinet.

4. Removal/Installation Movable Coat Closet Passenger Warning Signs (see Figure 202)

A. Equipment Required - None.

B. Preparation - Open PASS WARN SIGN circuit breaker on main circuit breaker panel.

C. Remove Movable Coat Closet Passenger Warning Sign.

(1) Remove cover from partition by pulling out at ends of cover with fingers.

(2) Remove bulb sockets by sliding sockets toward center of sign (see Figure 202).

(3) Disconnect electrical wires to lamp receptical base. (Tag wires for reinstallation.)

D. Install Movable Coat Closet Passenger Warning Sign.

(1) Attach electrical wires to socket according to tags affixed in removal, step C.(3).

(2) Install sockets by sliding socket over mounting attachment in light receptacle (see Figure 202).

(3) Align pins on cover with holes in partition and push to snap cover in place.

(4) Close PASS WARN SIGN circuit breaker on main circuit breaker panel.

(5) Test operation of lights (refer to Adjustment/Test Passenger Warning Lights).

5. Removal/Installation Lounge Area Passenger Warning Sign Light Bulbs

A. Equipment Required - None.

B. Remove Light Bulbs.

(1) Pull escutcheon from sign with fingers.

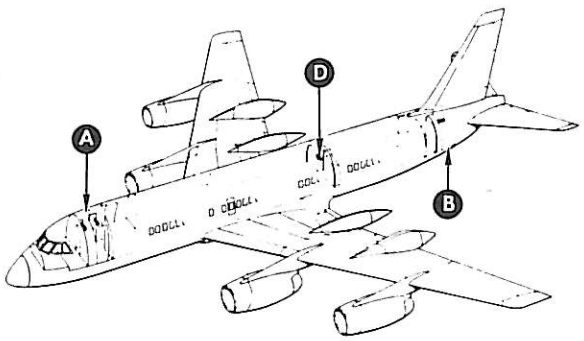
(2) Remove caps from light receptacles.

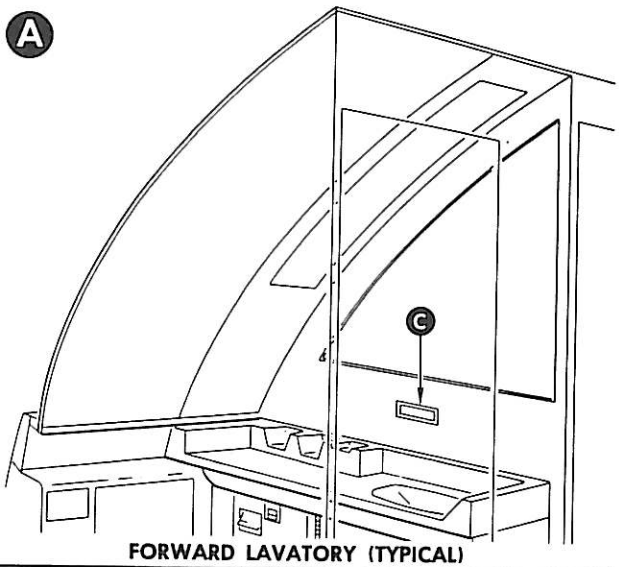
(3) Push in and turn bulb counterclockwise to remove.

C. Install Light Bulbs.

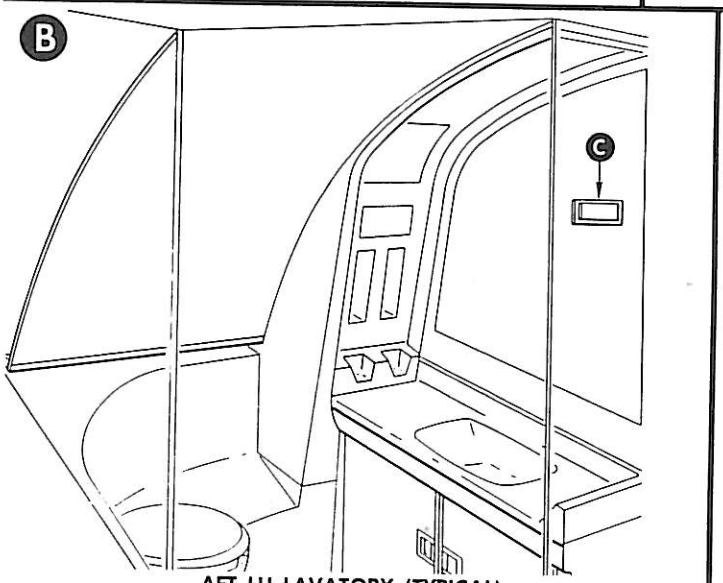
(1) Insert bulb in light receptacle, push in and turn clockwise.

(2) Install caps on light receptacles.

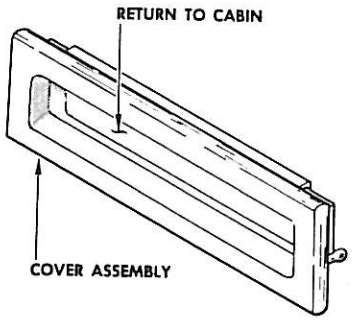




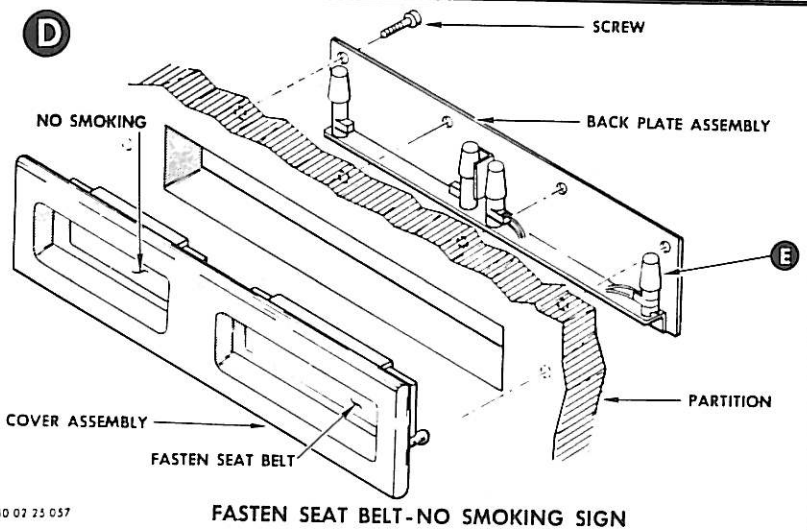
FORWARD LAVATORY (TYPICAL)



AFT LH LAVATORY (TYPICAL)

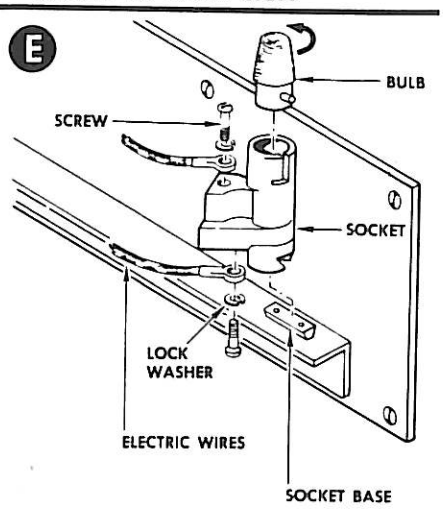


RETURN TO CABIN SIGN



30 02 25 057

FASTEN SEAT BELT-NO SMOKING SIGN



BULB AND SOCKET ASSEMBLY (TYPICAL)

Lavatory and Movable Coat Closet
Passenger Warning Signs Installation
Figure 202

C. Install Passenger Warning Signs.

(1) Insert light receptacles through hole in passenger warning sign and align locating pin on base of receptacle.

(2) Install two nuts on base of receptacles.

(3) Connect electrical wires to light receptacle.

(4) Place escutcheon in position and install caps and washers on light receptacles.

(5) Install forward, center or aft ceiling dropped panel (refer to Removal/Installation Ceiling Dropped Panels).

3. Removal/Installation Forward Entrance Area and Movable Coat Closet Passenger Warning Sign Light Bulbs (see Figure 202)

A. Equipment Required - None.

B. Preparation - Open PASS WARN SIGNS and LAV OCCUP WARN LTS circuit breakers on main circuit breaker panel.

C. Remove Forward Entrance Area or Movable Coat Closet Passenger Warning Sign Light Bulbs.

(1) Remove cover from sign in forward entrance area (station 323) or movable coat closet. Covers press on: to remove, pull cover away from light fixture at each end with fingers.

(2) Remove bulbs by pushing in and turning bulb counterclockwise.

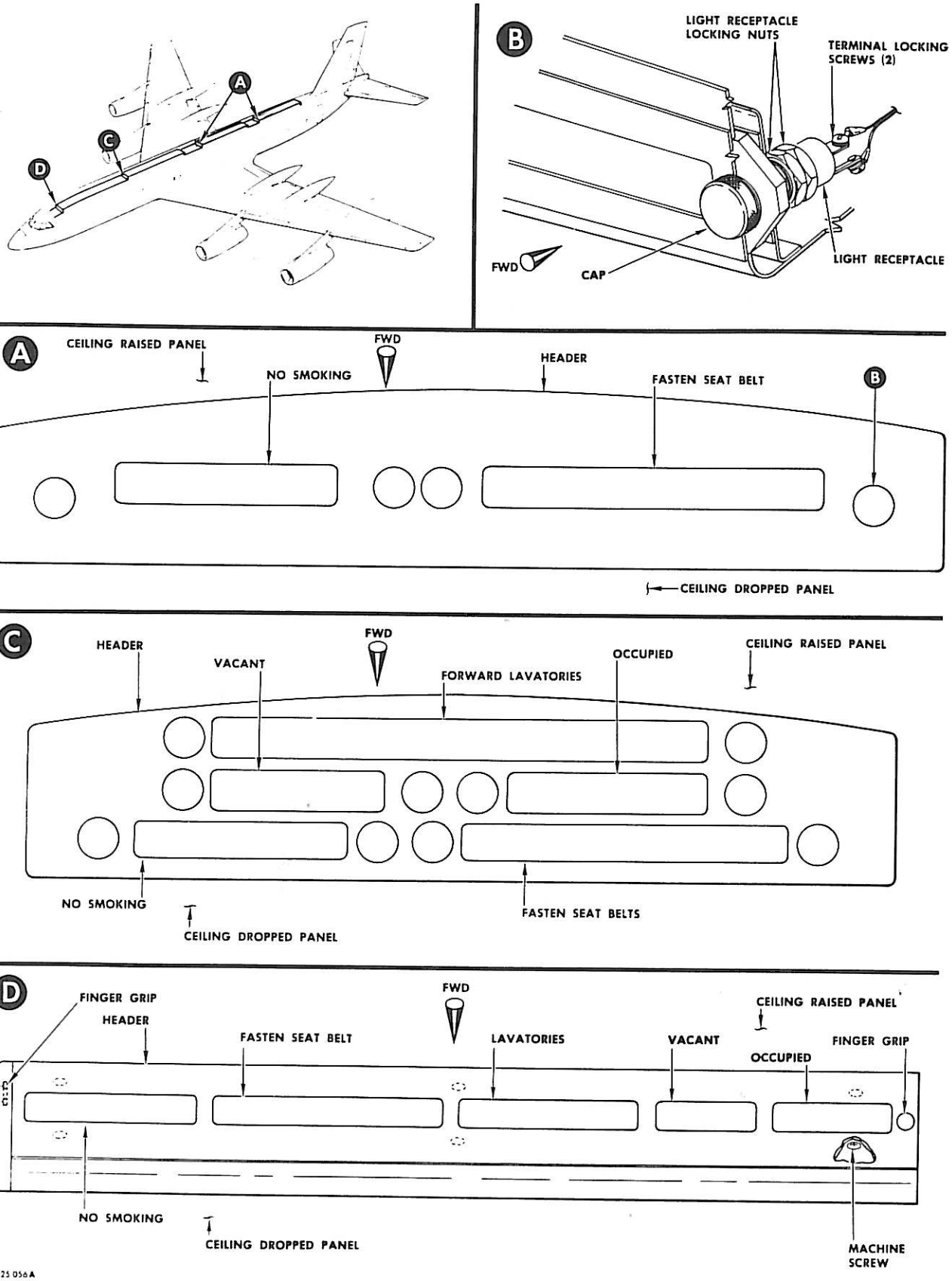
D. Install Forward Entrance Area or Movable Coat Closet Passenger Warning Sign Light Bulbs.

(1) Insert bulb in socket and turn clockwise while applying slight pressure.

(2) Align pins on cover with holes in partition or retaining clips and push to install cover.

(3) Close PASS WARN SIGNS and LAV OCCUP WARN LTS circuit breakers on main circuit breaker panel.

(4) Test operation of lights (refer to Adjustment/Test Passenger Warning Lights).



30 02 25 056A

Passenger Warning Signs Installation
Figure 201

PASSENGER WARNING SIGNS - MAINTENANCE PRACTICES

1. Removal/Installation Cabin Passenger Warning Sign Light Bulbs (see Figure 201)

   A. Equipment Required - None.

   B. Preparation - Open PASS WARN SIGNS and *LAV OCCUP WARN LTS circuit breakers on main circuit breaker panel.

   C. Remove Cabin Passenger Warning Sign Light Bulbs.

      (1) Remove cap from light receptacle (turn cap counterclockwise).

      (2) Push in and turn bulb counterclockwise to remove.

   D. Install Cabin Passenger Warning Sign Light Bulbs.

      (1) Insert bulb in socket, apply slight pressure, and turn bulb clockwise.

      (2) Install light receptacle cap and washer (turn cap clockwise).

      (3) Close PASS WARN SIGNS and *LAV OCCUP WARN LTS circuit breakers on main circuit breaker panel.

      (4) Test operation of lights (refer to Adjustment/Test Passenger Warning Lights).

2. Removal/Installation Cabin Passenger Warning Signs (see Figure 201)

   A. Equipment Required - None.

   B. Remove Cabin Passenger Warning Signs.

      (1) Remove forward, center or aft ceiling dropped panel (refer to Removal/Installation Ceiling Dropped Panels).

      (2) Remove light receptacle caps (turn caps counterclockwise) and remove escutcheon.

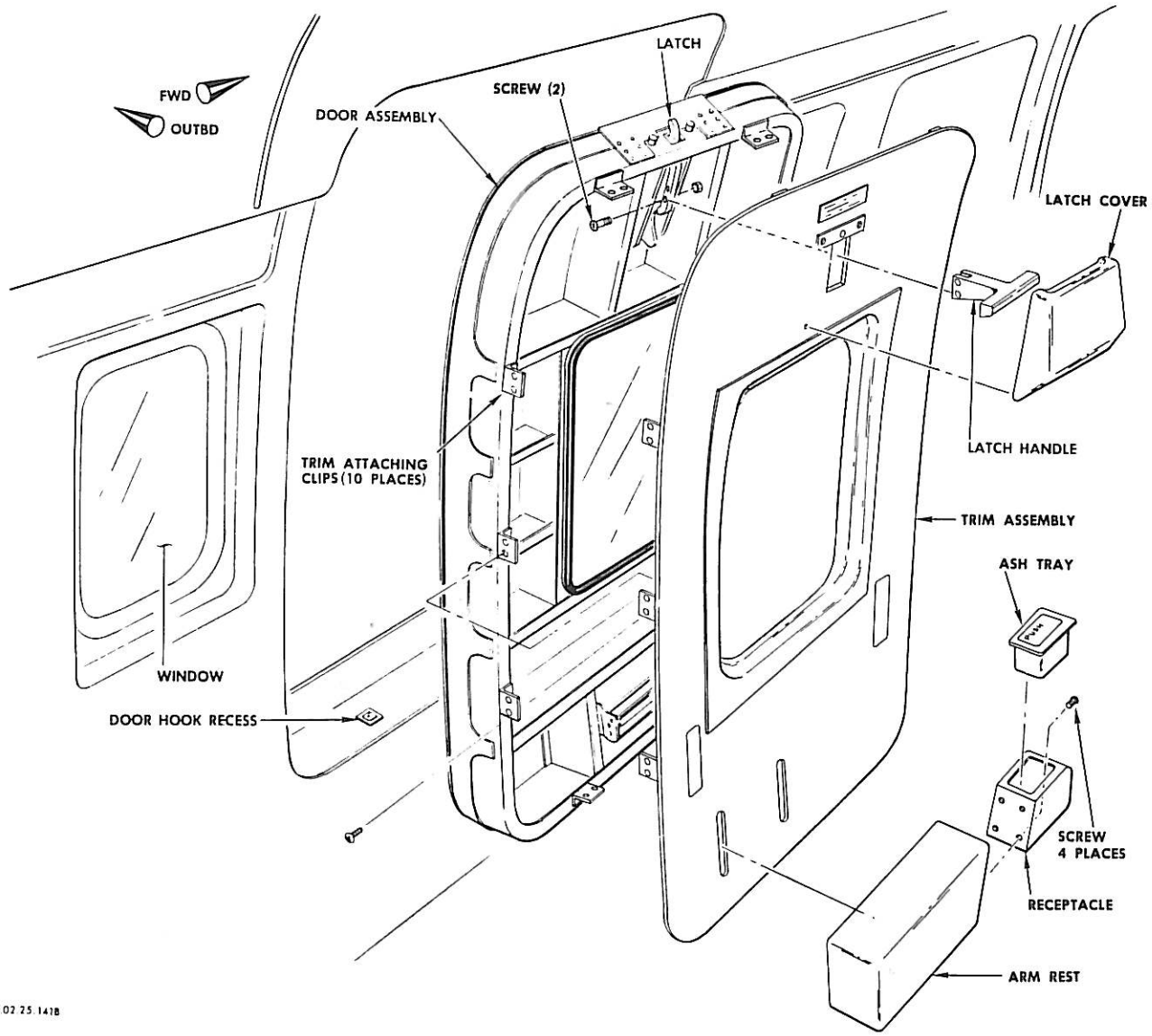
      (3) Disconnect electrical wires at light receptacle base.

      (4) Remove two nuts from base of light receptacle.

         NOTE: These two nuts and the light receptacle hold the plastic signs in place.

      (5) Remove light receptacle through hole in passenger warning sign.

*Applicable to airplanes CV1 through CV25.



Emergency Exit Trim Installation
Figure 201

EMERGENCY EXIT TRIM - MAINTENANCE PRACTICES

1. Removal/Installation Emergency Exit Trim (see Figure 201)

   A. Equipment Required - None.

   B. Remove Emergency Exit Trim.

      (1) Remove emergency exit door (refer to Chapter 52, DOORS).

      (2) Remove emergency exit door handle.

      (3) Remove arm rest attaching screws.

      (4) Remove trim attaching screws from clips on sides, top, and bottom of emergency exit door.

   C. Install Emergency Exit Trim.

      (1) Position trim on emergency exit door and install attaching screws in clips on sides, top and bottom of door.

      (2) Install emergency exit door handle.

      (3) Install arm rest attaching screws.

      (4) Install emergency exit door (refer to Chapter 52, DOORS).

2. Adjustment/Test Window Curtain Cable Rigging

   Refer to Adjustment/Test Window Curtain Cable Rigging for cable rigging procedure.

3. Removal/Installation Ceiling Raised Panels (see Figure 203)

A. Equipment Required - None.

B. Remove Ceiling Raised Panels.

(1) Remove aisle light (refer to Chapter 33, LIGHTS).

(2) Remove neoprene extrusion and sponge rubber roll at forward and aft ends of panel.

(3) Remove attaching screws at forward and aft ends of panel.

(4) Release sliding fasteners along each outboard side of panel. Fasteners slide outboard to release panel.

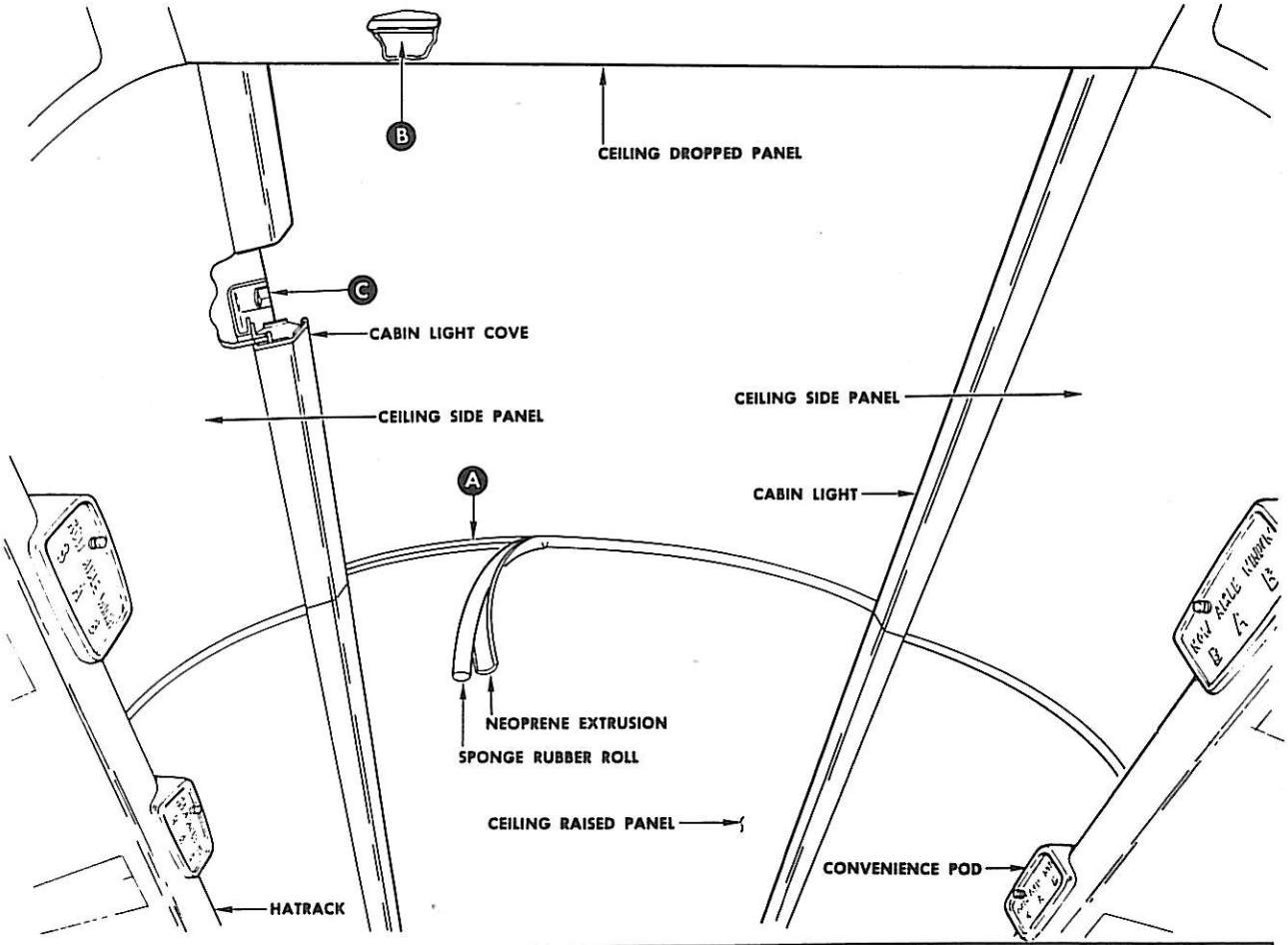
C. Install Ceiling Raised Panels.

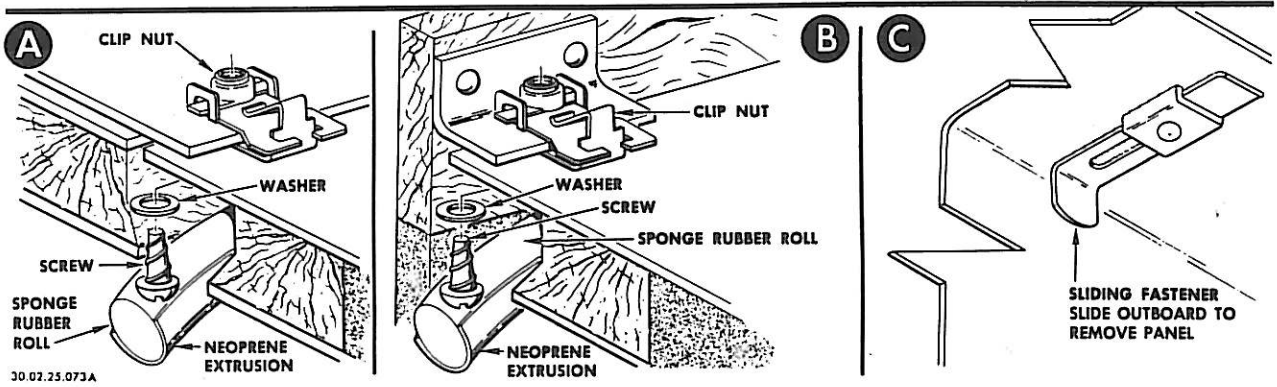
(1) Place panel in position and install attaching screws at forward and aft ends of panel.

(2) Secure outboard sides of panel with sliding fasteners. Slide fasteners inboard to secure panel.

(3) Install aisle light (refer to Chapter 33, LIGHTS).

(4) Install sponge rubber roll and neoprene extrusion at forward and aft ends of panel.





Cabin Ceiling Raised Panel Installation
Figure 202

2. Removal/Installation Ceiling Dropped Panels (see Figure 202)

A. Equipment Required - None.

B. Remove Ceiling Dropped Panels.

(1) Remove ceiling raised panel aft of ceiling dropped panel (refer to Removal/Installation Ceiling Raised Panels).

(2) Remove neoprene extrusion and sponge rubber rolls where ceiling raised panels attach to headers.

(3) Remove cap strip along outboard sides of panel. Cap strip fasteners are accessible through slotted holes in cap strip.

(4) Remove attaching screws at outboard ends of each header.

(5) Remove attaching screws on outboard sides of panel and at forward end of panel.

NOTE: Steps (6), (7) and (8) apply to forward and center ceiling dropped panel.

(6) Open PASS WARN SIGN circuit breaker on main circuit breaker panel.

(7) Lower panel sufficient to gain access to passenger warning sign light receptacle wiring.

(8) Disconnect wiring from light receptacles.

(9) Remove panel.

C. Install Ceiling Dropped Panels.

NOTE: Steps C. (1) and (6) apply to forward and center ceiling dropped panels.

(1) Connect wires to passenger warning sign light receptacles.

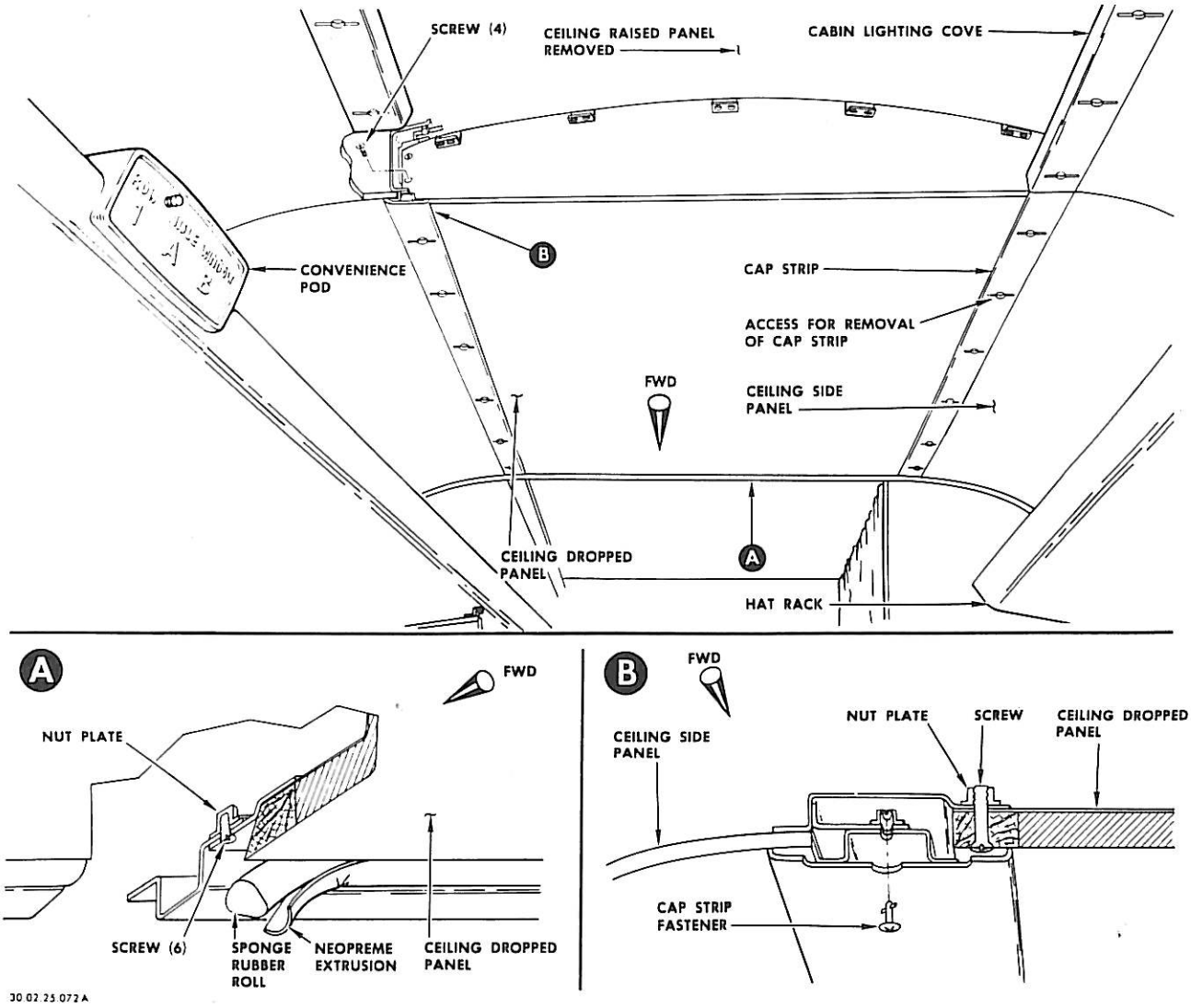
(2) Place panel in position and install attaching screws at forward end and outboard sides of panel.

(3) Install ceiling raised panel aft of dropped ceiling panel (refer to Removal/Installation Ceiling Raised Panels).

(4) Install cap strip along sides of panel.

(5) Install sponge rubber roll and neoprene extrusion at forward and aft end of panel.

(6) Close PASS WARN SIGN circuit breaker and check operation of passenger warning sign lights (refer to Adjustment/Test Passenger Warning Sign Lights).



Cabin Ceiling Dropped Panel Installation
Figure 201

CABIN CEILING PANELS - MAINTENANCE PRACTICES

1. Removal/Installation Ceiling Side Panels (see Figure 201)

   A. Equipment Required - None.

   B. Remove Ceiling Side Panels.

      (1) Remove neoprene extrusion and sponge rubber roll at panel butt joints.

      NOTE: Step B. (2) and (3) applies to ceiling side panels at dropped ceiling panels. Step B. (4) applies to ceiling side panels at raised ceiling panels.

      (2) Remove cap strip at upper edge of ceiling side panel. Cap strip fasteners are accessible through holes in cap strip.

      (3) Remove screws attaching upper edge of ceiling side panel to airplane structure.

      (4) Remove cabin cove lights and ballast (refer to Chapter 33, LIGHTS).

      (5) Remove cabin lighting cove assembly. (Cabin lighting cove attaching screws also secure ceiling side panels to airplane structure.)

      (6) Remove ceiling side panel attaching screws at butt joints.

      (7) Remove ceiling side panel by moving panel up and inboard to clear groove in panel lower support angle.

   C. Install Ceiling Side Panel.

      (1) Position panel with lower edge in panel lower support angle groove.

      (2) Install ceiling side panel attaching screws at butt joints.

      NOTE: Steps C. (3) and (4) apply to ceiling side panels at the dropped ceiling panels. Steps C. (5) and (6) apply to ceiling side panels at raised ceiling panels.

      (3) Install ceiling side panel upper edge attaching screws.

      (4) Install cap strip.

      (5) Install cabin lighting cove assembly.

      (6) Install cabin cove lights and ballast (refer to Chapter 33, LIGHTS).

      (7) Install sponge rubber roll and neoprene extrusion at panel butt joints.

(9) Close circuit breakers opened in step B.(2) and check operation of passenger reading lights (refer to Chapter 33, LIGHTS).

(10) Close PASS CALL LTS LH AND RH circuit breakers and check operation of passenger call system (refer to Chapter 23, COMMUNICATIONS).

(3) Release spring catches on each side of convenience pod cover.

(4) Open convenience pod cover; disconnect wiring to passenger call light switch and remove convenience pod cover.

(5) Remove two screws attaching handrail to convenience pod.

(6) Pull spring-loaded slide inboard to release convenience pod upper attaching hook.

(7) Raise convenience pod slightly to disengage upper attaching hook and lower inboard end of convenience pod. (Convenience pod support cable prevents pod swigning down full travel.)

(8) Disconnect air inlet hose and wiring to passenger reading lights. Cap and plug air inlet fittings.

(9) Disconnect oxygen line (refer to Chapter 35, OXYGEN).

(10) Release convenience pod supporting cable at upper end, and lower pod until convenience lower attaching hook releases from support rail.

C. Install Convenience Pod.

(1) Position convenience pod with lower attaching hook engaged in lower convenience pod supporting rail.

(2) Raise convenience pod and attach clip on pod supporting cable to upper attaching rail.

(3) Connect oxygen line (refer to Chapter 35, OXYGEN).

(4) Connect air inlet hose and wiring to passenger reading light.

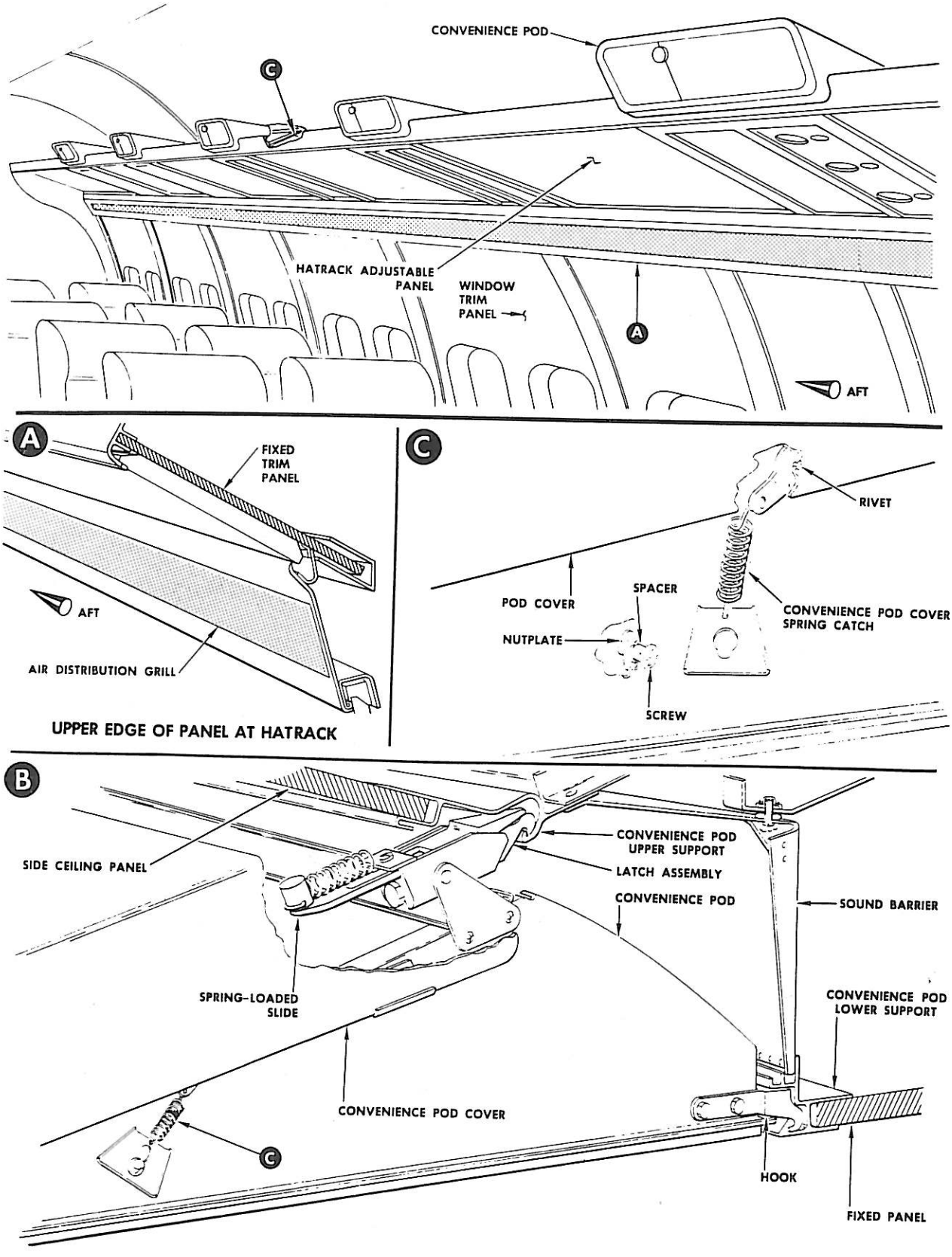
(5) Raise convenience pod; pull inboard on spring-loaded slide at upper attaching hook and engage upper attaching hook in convenience pod upper support rail. Release spring-loaded slide.

NOTE: Use bolt located just below spring-loaded slide to adjust friction on slide and to align handrail.

(6) Install two screws attaching handrail to convenience pod.

(7) Position convenience pod cover and connect wiring to passenger call switch.

(8) Attach spring catches on each side of convenience pod cover.



22 35 25 117A

Hatrack and Convenience Pod Installation Details
Figure 201

HATRACK AND CONVENIENCE PODS - MAINTENANCE PRACTICES

1. Removal/Installation Hatrack Adjustable Panels (see Figure 201)

   A. Equipment Required - None.

   B. Remove Hatrack Adjustable Panels.

      (1) Remove convenience pod on each side of adjustable hatrack panel (refer to Removal/Installation Convenience Pods). At cabin aft partition and lounge forward partition, remove screws attaching panel support bracket to partition.

      (2) Remove screws attaching panel to handrail.

      (3) Disconnect wiring to speaker (refer to Chapter 23, COMMUNICATIONS).

      (4) Lower panel and move inboard to disengage hook and panel locating pin from support rail.

   C. Install Hatrack Adjustable Panels.

      (1) Position hatrack adjustable panel with hook engaged in support rail.

      (2) Raise panel and align locating pins on panel with holes in support rail.

      (3) Install screws attaching panel to handrail.

      (4) Connect wiring to speaker (refer to Chapter 23, COMMUNICATIONS).

      (5) Install convenience pods or install adjustable panel support bracket at cabin aft partition and lounge forward partition (refer to Removal/Installation Convenience Pods).

      (6) Check speaker operation (refer to Chapter 23, COMMUNICATIONS).

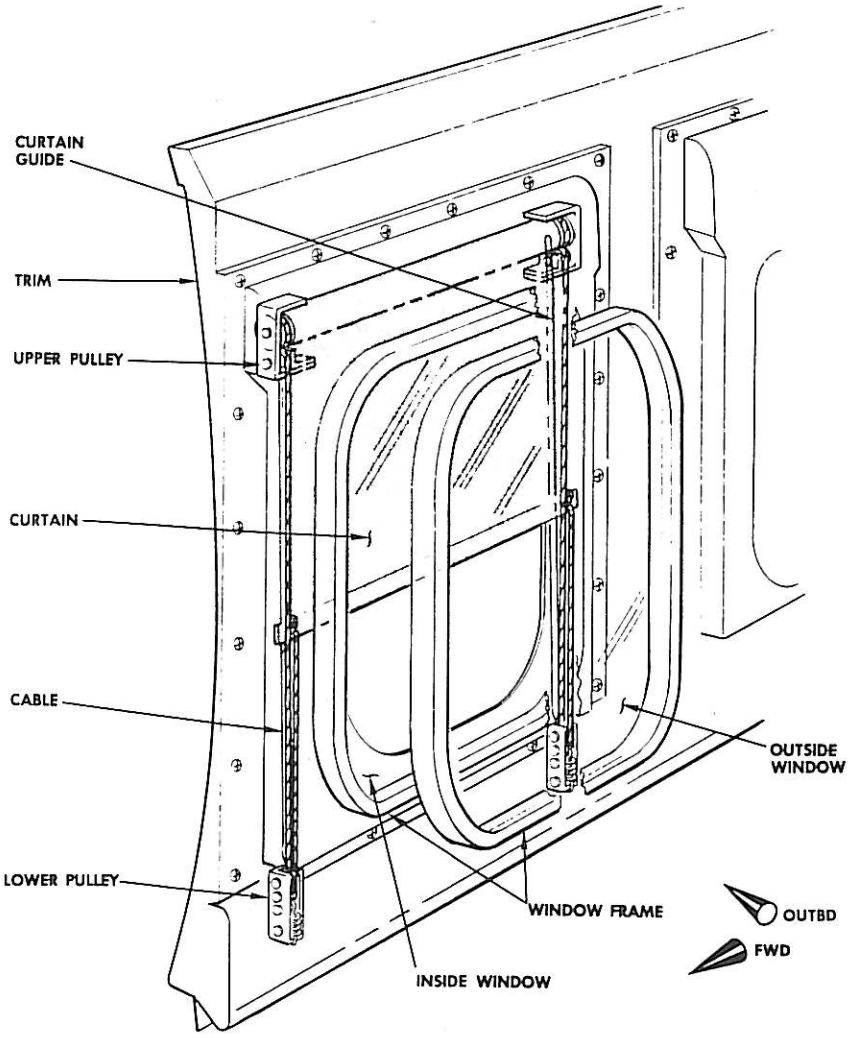
2. Removal/Installation Convenience Pods (See Figure 201)

   A. Equipment Required - None.

   B. Remove Convenience Pod.

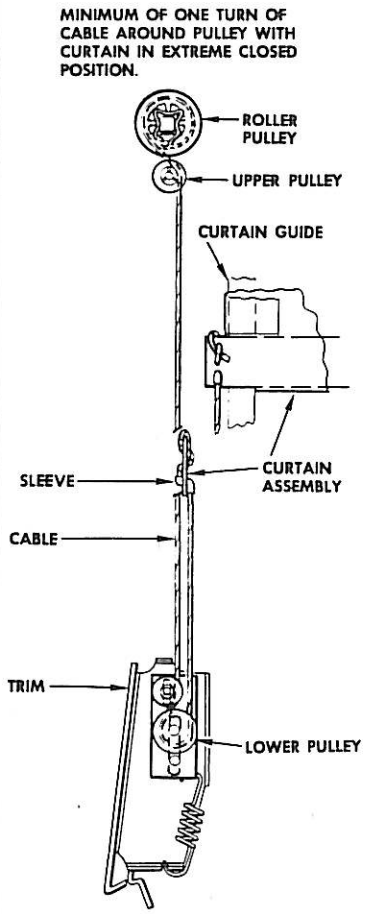
      (1) Open PASS CALL LTS LH and RH circuit breakers on main circuit breaker panel.

      (2) Open five switch-type READING LIGHTS circuit breakers on aft stewardess control panel.

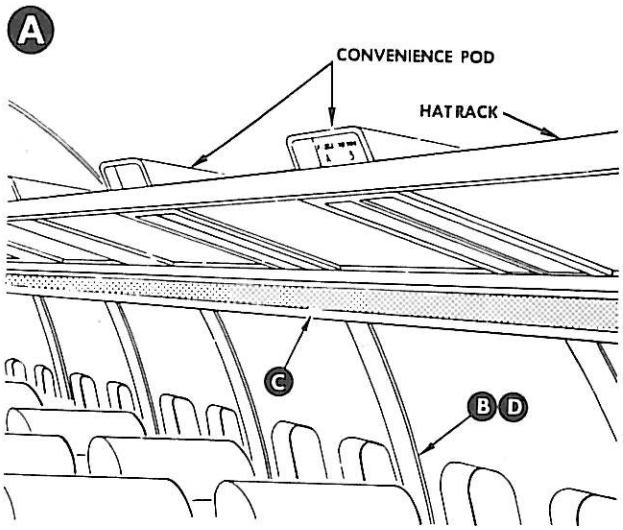


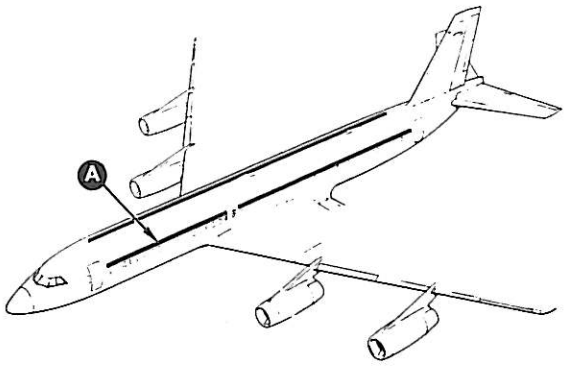
22.02.25.102A

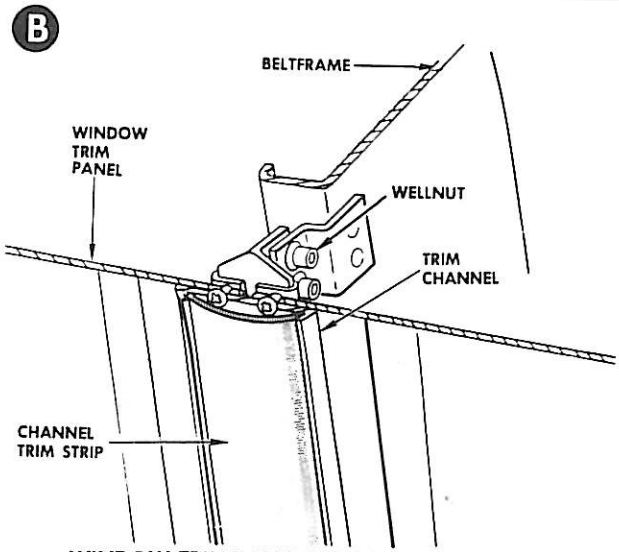
WINDOW CURTAIN CABLE INSTALLATION (TYPICAL)



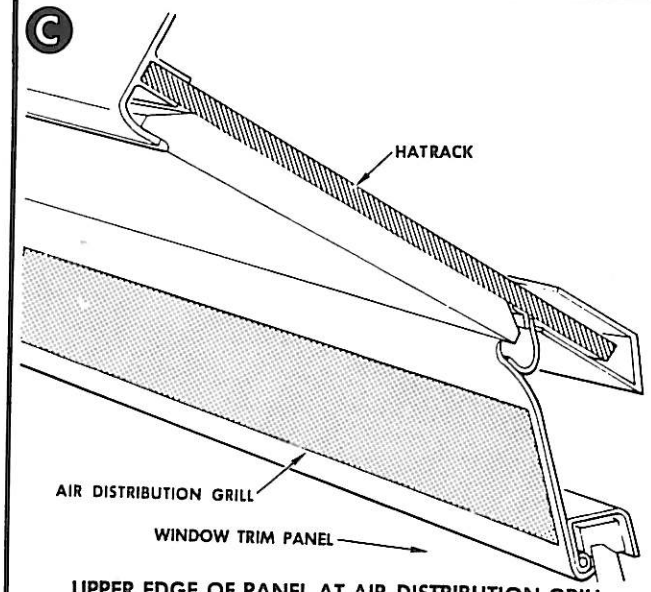
SIDE VIEW



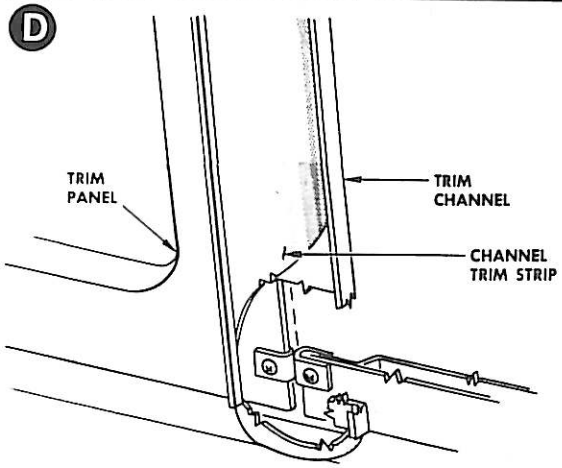




WINDOW TRIM PANEL BUTT JOINT—TYPICAL OF UPPER END

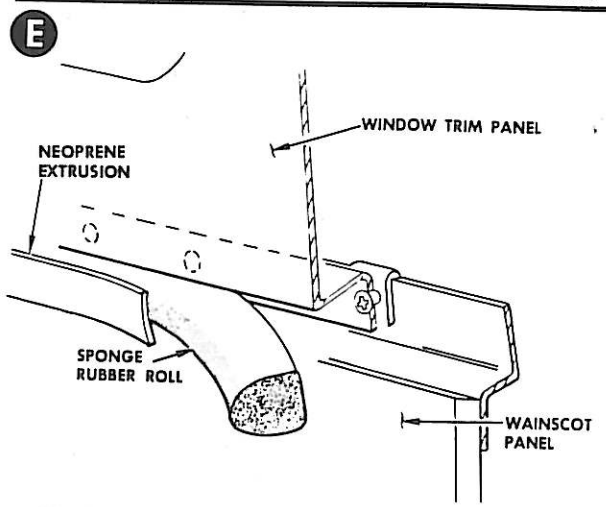


UPPER EDGE OF PANEL AT AIR DISTRIBUTION GRILL



WINDOW TRIM PANEL BUTT JOINT—TYPICAL OF LOWER END

30.02.25.052



WINDOW TRIM-WAINSCOT ATTACHMENT, TYPICAL

WINDOW TRIM PANELS - MAINTENANCE PRACTICES

1. Removal/Installation Window Trim Panels (see Figure 201)

   A. Equipment Required - None.

   B. Remove Window Trim Panels.

      (1) Remove neoprene extrusion and sponge rubber roll at bottom of window trim panel.

      (2) Remove trim strip from channels between window trim panels.

      (3) Remove screws from trim channel and remove channel.

      (4) Remove screws along bottom of window trim panel.

      (5) Move bottom of panel inboard and down and remove panel.

   C. Install Window Trim Panels.

      (1) Place window trim panel in place with upper edge pressed into spongex material in channel up behind upper sidewall panel.

      (2) Align holes along bottom and at forward and aft ends of window panel.

      (3) Install trim channels at forward and aft ends of window panel. Same screws secure channel and window panel to brackets. Bottom screws secure trim channel to window panel only.

      (4) Install screws along bottom edge of window panel.

      (5) Install sponge rubber roll and neoprene extrusion between bottom of window trim and wainscot.

2. Adjustment/Test Window Curtain Cable Rigging (see Figure 202)

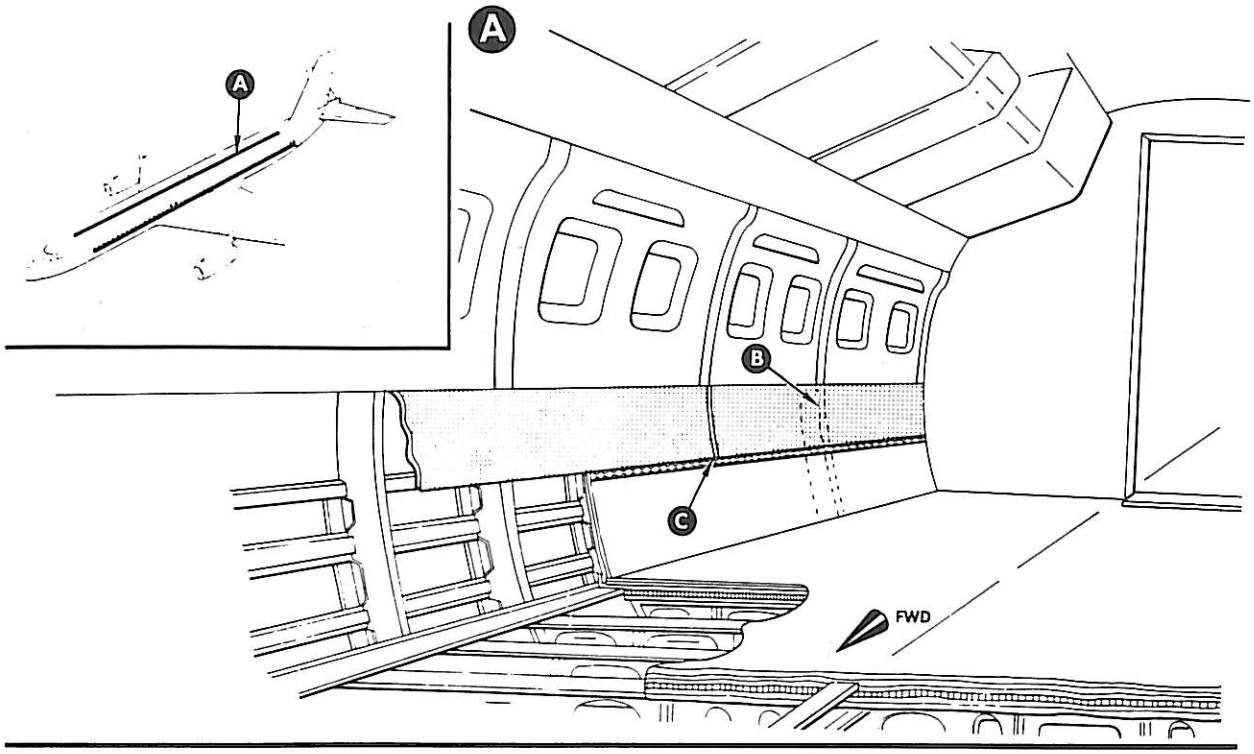
   A. Equipment Required - None.

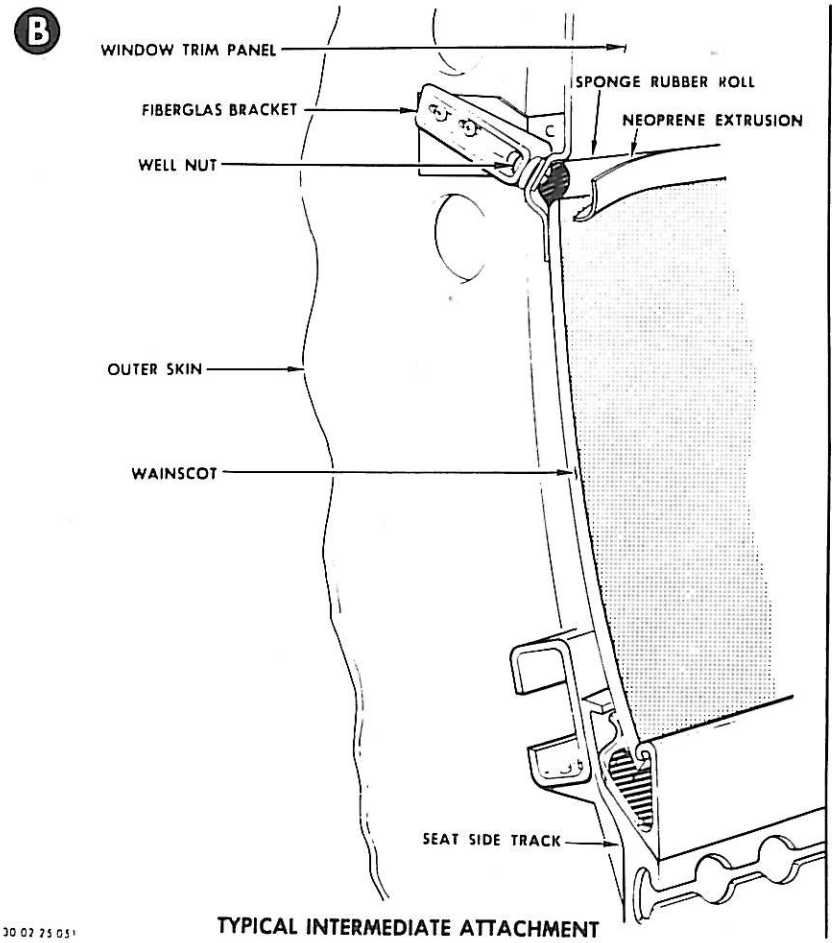
   B. Rig Window Curtain Cables.

      (1) Place curtain in full open position and attach cable to roller pulley with a minimum of one turn of cable around pulley.

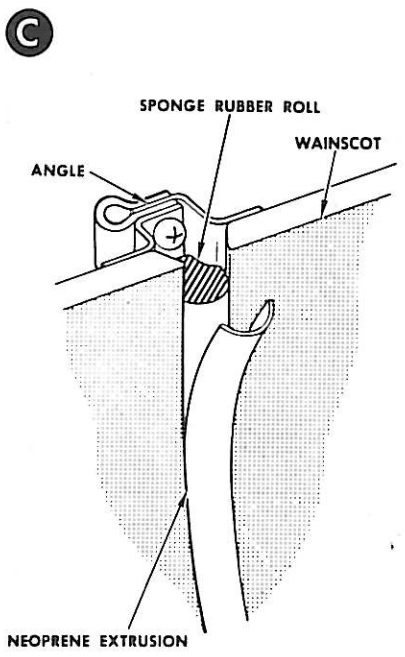
      (2) Pull curtain to extreme down position, maintaining tension on cable to assure a tight winding on pulley.

      (3) Raise lower pulley assembly to extreme up position and connect cable to end of curtain crossbar.





TYPICAL INTERMEDIATE ATTACHMENT



TYPICAL BUTT JOINT ATTACHMENT

30 02 25 051

WAINSCOT PANELS - MAINTENANCE PRACTICES

1. Removal/Installation Wainscot Panels (see Figure 201)

   A. Equipment Required - None.

   B. Remove Wainscot Panel.

      (1) Remove neoprene extrusion and sponge rubber roll from between wainscot panel and window trim panel and from each end of wainscot panel.

      (2) Remove adjacent window trim panels (refer to Removal/Installation Window Trim Panels).

      (3) Remove screws from mounting angles at each end of wainscot panels.

      (4) Remove screws from mounting angle along top of wainscot panel.

      (5) Lift up wainscot panel and remove.

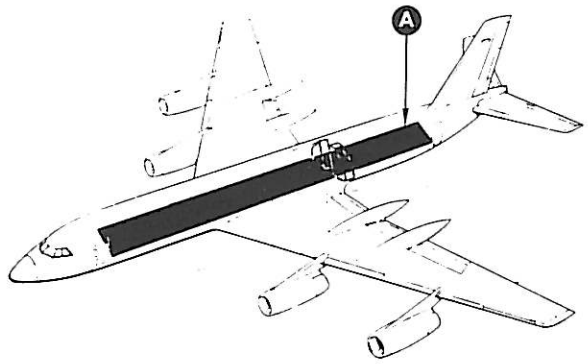
   C. Install Wainscot Panel.

      (1) Place wainscot panel in place so that integral spring clips along bottom engage top edge of carpet cove panel.

      (2) Align screw holes along top and at both ends of wainscot panel and install screws at both ends.

      (3) Install window trim panels (refer to Removal/Installation Window Trim Panels).

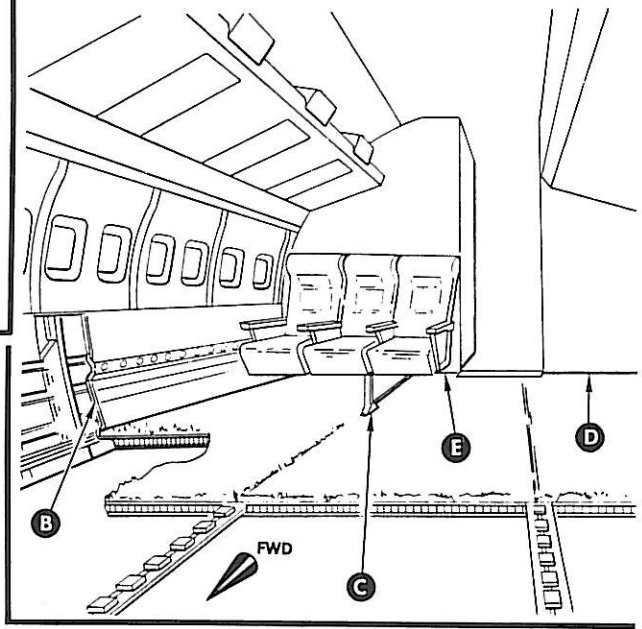
      (4) Install sponge rubber roll and neoprene extrusion along top and at both ends of wainscot panel.

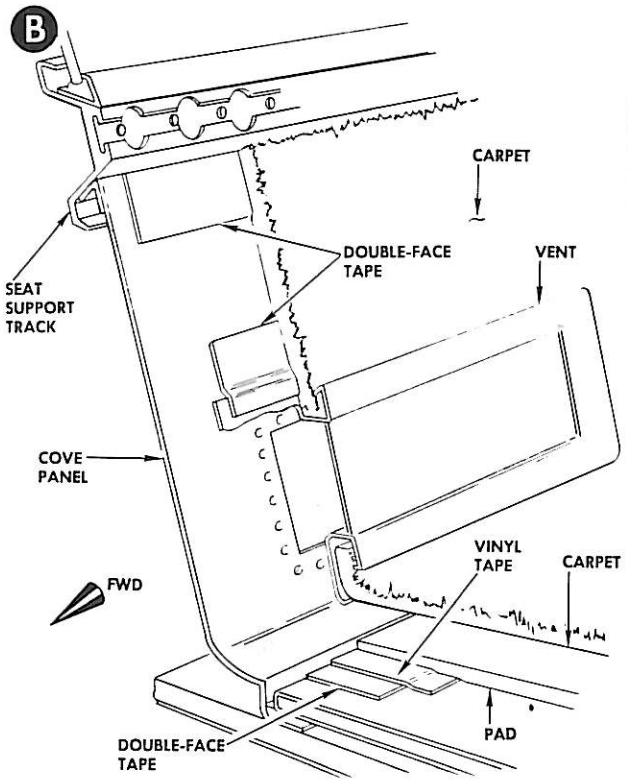


A

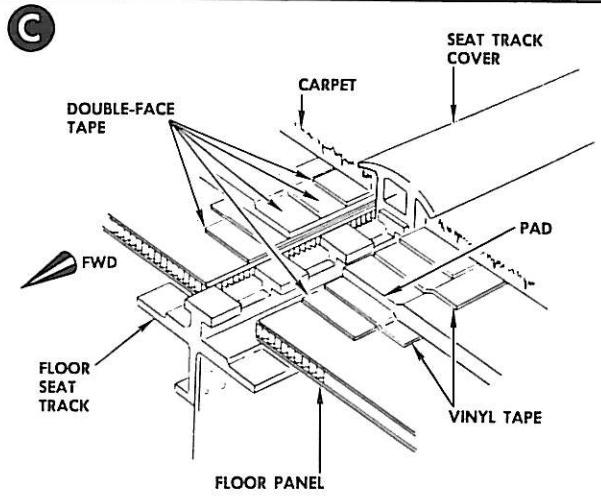
NOTE:

1. TRACK COVER CONSISTS OF ALUMINUM SHEET SECURED TO FLOOR WITH DOUBLE-FACE TAPE ON SOME AIRPLANES.
2. PADS SHOWN, ATTACH TO CARPET WITH DOUBLE-FACE TAPE. PADS BONDED TO CARPET ON SOME AIRPLANES.

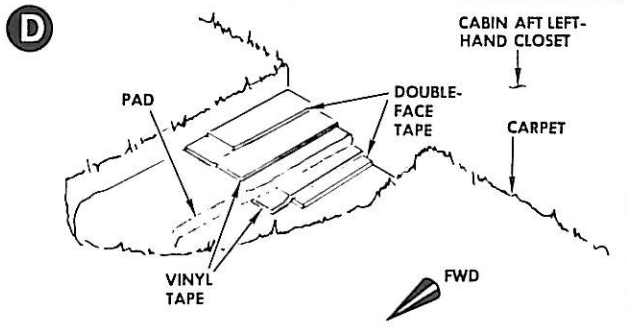




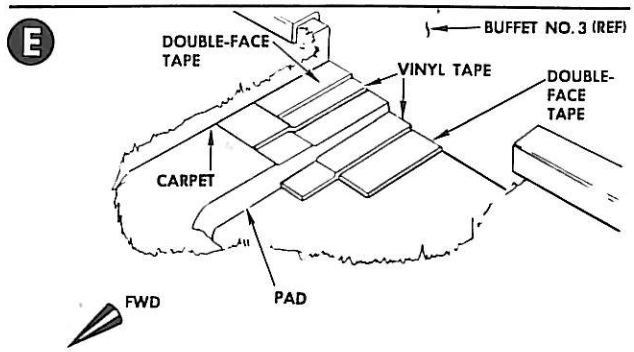
CARPET AND PAD INSTALLATION AT OUTBOARD EDGES



CARPET AND PAD INSTALLATION AT SEAT TRACKS

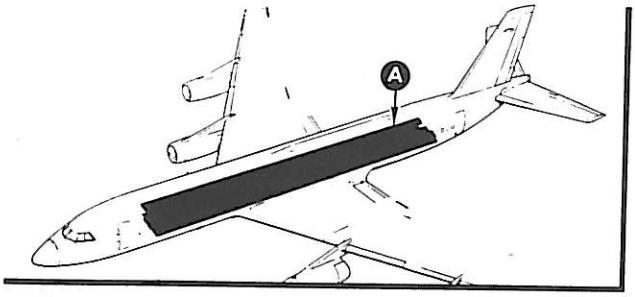


CARPET AND PAD INSTALLATION AT AFT CLOSET



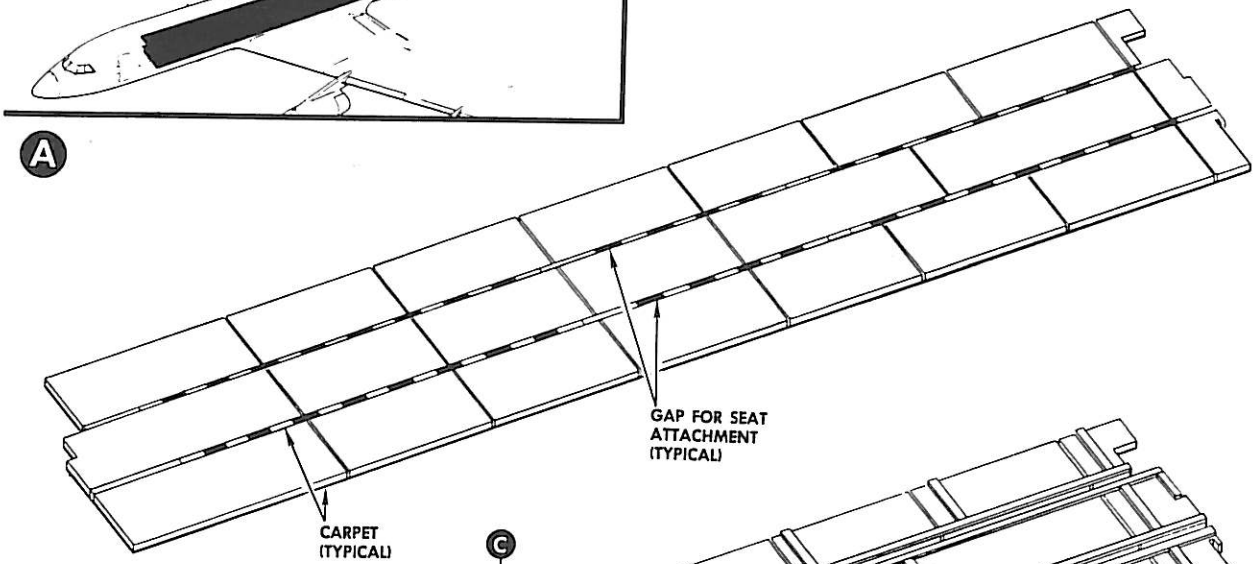
CARPET AND PAD INSTALLATION AT BUFFET NO. 3

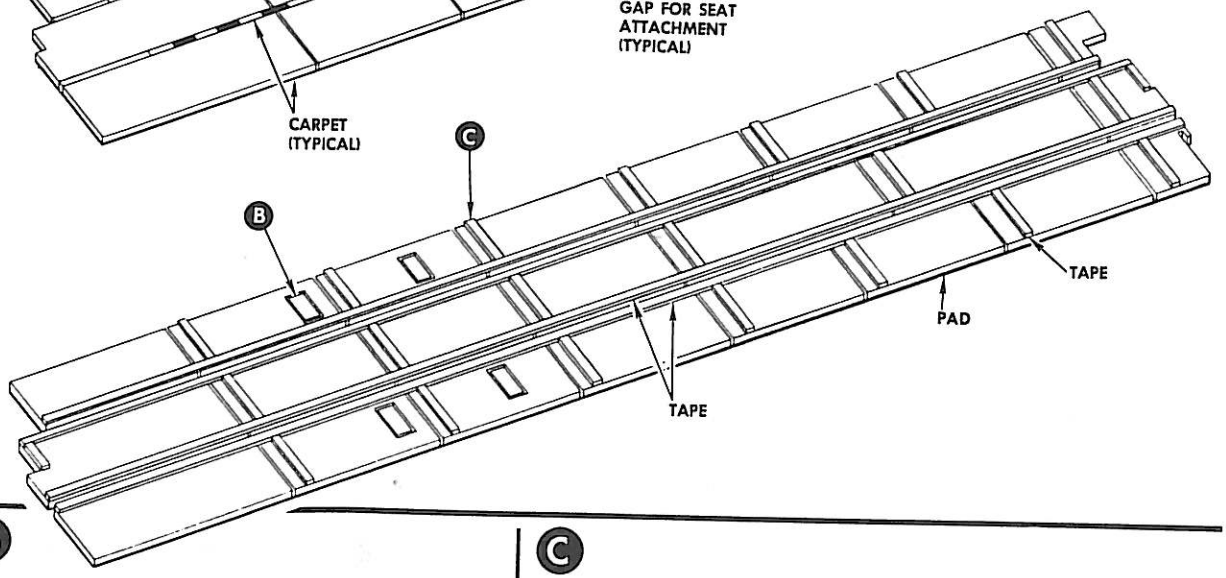
30.02.25.049A

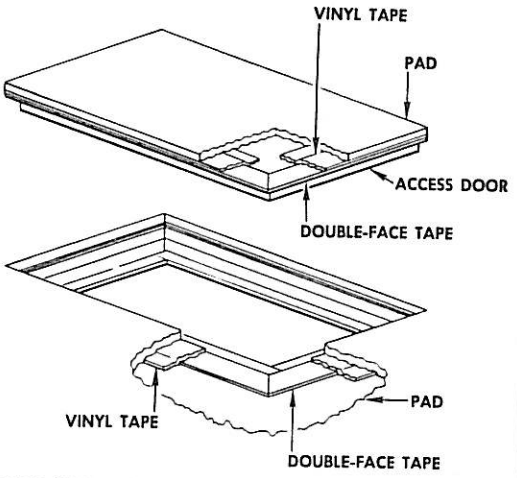


NOTE:

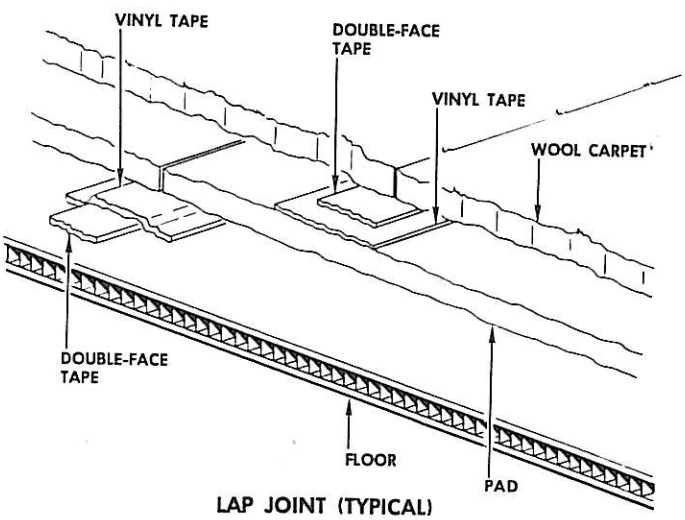
1. CUTOUTS AT FORWARD AND AFT ENDS OF CARPET VARY WITH AIRPLANE CONFIGURATION.
2. PADS SHOWN, ATTACH TO CARPET WITH DOUBLE-FACE TAPE. PADS BONDED TO CARPET ON SOME AIRPLANES.







OVER WING ACCESS DOOR (TYPICAL 4 PLACES)



LAP JOINT (TYPICAL)

30.02.25.048A

MAIN CABIN CARPET - MAINTENANCE PRACTICES

1. Removal/Installation Carpet (see Figures 201 and 202)

   A. Equipment Required - Tape - Permacel No. 50 (Permacel Tape Co.) or equivalent.

   B. Remove Carpet.

      (1) Observe Figure 201 and note carpet section to be removed and location of tape.

      NOTE: The carpet is held in place by tape only.

      (2) See Figure 202 for details of carpet installation and tape sequence.

      (3) Start at one end and peel carpet and double-faced tape from single-faced tape on pad or from surface of floor (some airplanes have pad bonded to carpet).

      CAUTION: DO NOT PEEL TAPE FROM CARPET PAD.

   C. Install Carpet.

      (1) Be sure that replacement carpet is cut to proper size.

      (2) Install new double-faced tape on pad tape or floor.

      (3) Roll carpet section and fit loose end firmly against existing carpet, then unroll slowly and press firmly into place.

LOUNGE SEATS - MAINTENANCE PRACTICES

(Refer to MAIN CABIN SEATS - MAINTENANCE PRACTICES.)

(3) To remove foam for replacement, except on seat back structure, use a sharp, thin knife to cut it just beside the cemented joint while pulling the gap open. Most of the foam should come off, leaving a thin layer of foam and cement on the metal. If a relatively even surface is left, new foam can be installed over this thin layer. If the layer is thick or uneven, strip down to bare metal before installing new foam. Use commercial grade acetone as solvent to soak layer before using a dull metal blade to scrape layer from metal.

CAUTION: ACETONE CAUSES FOAM BREAKDOWN. DO NOT USE ACETONE IN MAKING MINOR REPAIRS. DO NOT REUSE FOAM SOAKED BY ACETONE.

(4) If foam is ripped or loose but is otherwise usable, cement the tear or loose joint. Apply cement, No. EC-1300, or equivalent, to both sides of joint and allow to air dry until tacky. Press joint together and hold briefly.

NOTE: There is some local stiffening of foam at cemented joints. Avoid heavy or extensive cementing on seat foam faces or edges.

(5) Similar instructions apply to the fairing cemented to the center armrest. The fairing will be damaged beyond use in removal, and the metal must be scraped clean as previously described before a new fairing is cemented in place.

C. Vel-Cro.

(1) Most of the fixed strips of Vel-Cro are cemented in place. Repair loosened areas using EC-1300 cement. To remove a strip, soak with acetone. To install a strip, wipe metal surface clean and dry. Coat the metal and the Vel-Cro with EC-1300 cement and allow cement to air-dry until tacky. Press joint together and hold briefly.

(2) Most of the fiber strips of Vel-Cro are sewn to the cover material. If short sections of Vel-Cro are loosened on a good cover, repair by sewing. Replacement of fiber Vel-Cro tape seldom is necessary or economical.

D. Sheet Metal and Riveting

(1) Use standard shop practice for minor repair of sheet metal and/or riveted pieces.

(4) Damage to escutcheon or ash tray.

(5) Seat back lock for proper operation.

(6) Seat lock cable for kinks, broken strands.

(7) Seat belt and seat belt attachment.

(8) Armrest caps for clean smooth finish.

(9) Tray latch and keeper for proper operation.

(10) Tray support for proper adjustment.

(11) Seat back breakover properly set.

(12) Loose bolts in floor mounting fittings.

9. Cleaning/Painting Cabin Seats
(Not applicable to first-class seats on airplanes CV1 through CV25.)

A. Refer to Cleaning/Painting Crew and Passenger Seat Upholstery.

10. Approved Repairs - Cabin Seats
(Not applicable to first-class seats on airplanes CV1 through CV25.)

A. Equipment Required.

(1) Acetone or equivalent.

(2) Cement No. EC-1300 (Minnesota Mining and Manufacturing) or equivalent.

B. Cemented Foam.

(1) The cemented joint normally is stronger than the foam itself, and it is likely that the foam will be damaged beyond use in removal. Do not reinstall the same foam. Note that short sections of the cemented joint can be opened and re-cemented.

(2) To remove foam from seat back structure, pull foam and muslin from seat back. Muslin is cemented to foam in area where foam is cemented to seat back structure.

C. Adjust Breakover.

(1) Adjust bolt at lower rear of seat to reduce or increase spring tension as required to produce seat back breakover operated by a pull of 30 to 35 pounds.

D. Seat Back Alignment.

(1) If seat backs do not line up in normal position, install washers between seat lock and U-slot to obtain equal back angles (refer to Removal/Installation Seat Back Lock).

E. Adjust Seat Back Lock Control Cable.

(1) Adjust seat back lock control cable at recline control lever. Turn cable terminal counterclockwise to remove slack in cable. Adjust cable to allow full travel of seat back lock actuating lever.

F. Test Cabin Seats.

(1) Sitting in each seat, in turn, lift handle to check reclining action of seat. Back must recline smoothly and lock in position when handle is released. Lean forward to take weight off back. Lift handle and see that back recovers to normal position. Try at least three times to see that handle does not stick.

(2) Set seat back in reclining position. With handle down, pull seat back up manually to see that it returns to normal position without undue force and locks in place. Apply 35 pounds forward pull at top of back and see that breakover releases to allow seat back to fold forward. If not, adjust bolt at breakover to compress spring until proper setting is obtained.

NOTE: Do not test breakover excessively or adjustment may be lost.

(3) Check operation and position of tray, open and closed.

8. Inspection/Check Cabin Seats
(Not applicable to first-class seats on airplanes CV1 through CV25.)

A. Main Cabin Seats.

Under strong light, visually check all parts as applicable, for stripped threads, cracks, nicks, scratches, dents, corrosion and excessive wear. Check the following:

(1) Pip-pins and ball-lock pins for correct installation, cracks, deformation and operation of ball-lock and release.

(2) Seat covers for wear, tears, rips, cleanliness and burns.

(3) Cushions for deterioration.

C. Install Side Arm Cap.

(1) Install arm cap by spreading aft end of arm cap over side structure and push down, then slide aft.

(2) Front of arm cap must slip below side structure front as pins drop into key hole slots (with audible snap).

(3) Press in slightly at sides, then slide aft to end of key hole slot.

(4) Fasten with attaching screws under front end of cap.

(5) Install ash tray lid and attach escutcheon with screws.

6. Removal/Installation Center Armrest (see Figure 203)
(Not applicable to first class seats on airplanes CV1 through CV25.)

A. Equipment Required - None.

B. Remove Center Armrest.

NOTE: The center armrest is mounted by inserting the two integral inclined legs in matching nylon bushings in the base. The legs and bushing are inclined at a 23-degree angle from perpendicular.

(1) To remove center armrest pull up on armrest parallel to leg angle.

C. Install Center Armrest.

(1) Start front leg in front bushing; align aft leg with bushing and insert legs parallel to leg angle.

7. Adjustment/Test Cabin Seats
(Not applicable to first-class seats on airplanes CV1 through CV25.)

A. Equipment Required - None.

B. Adjust Tray Level.

(1) Loosen bolts and adjust stops on base of seat so that both tray support arms engage stops simultaneously and tray lip is clear of reclined seat back.

(2) To level tray, adjust upper set-screws at tray pivot point.

(3) To align tray support, when tray is closed and latched, adjust aft set-screws at tray pivot points as required.

(3) Disconnect cables from seat locks (refer to Removal/Installation Seat Lock, for access).

(4) For the triple center seat only, remove inboard center armrest and disconnect ball end of cable from lever on aft side of forward bayonet.

(a) Remove armrest cap and pull ball end up through cable housing.

(b) Disconnect upper end of lower cable from under base assembly and remove.

(5) On inboard and outboard armrests only, remove cable by pulling cable ani ball up through housing and out ash tray recess.

C. Install Seat Back Lock Control Cable.

(1) Slide ball end of cables down through upper end of housing in each armrest.

(2) Screw terminal end of cable into nut-plate under recline control lever assembly.

(3) For triple center seat only, install lower cable under inboard center armrest in housing under base assembly and connect cable to button assembly.

(4) Connect cables to seat lock levers under base assembly (refer to Removal/Installation Seat Back Lock, for access).

(5) For triple center seat only, connect ball end of cable to lever on aft side of forward bayonet to outboard center armrest.

(6) Adjust cable (refer to Adjustment/Test Cabin Seats).

5. Removal/Installation Arm Cap (see Figure 203)
(Not applicable to first-class seats on airplanes CV1 through CV25.)

A. Equipment Required - None.

B. Remove Arm Cap.

(1) Remove attaching screws from under front of arm cap.

(2) On all center armrests and on double and triple coach seat outboard armrests, pull arm cap forward in key hole slots and remove.

(3) On all inboard armrests and on first-class seat outboard armrests, spread sides of arm cap near rear enough to draw pins out of key hole slots. Avoid excessive force. When pins are free at slots, slide arm cap forward to remove. Do not lift front of arm cap until lip of arm cap is clear of armrest structure.

(3) Working up under front of seat, loosen front nut at seat lock.

(4) Remove spring attached to seat lock and base assembly.

(5) Drop forward end of lock from slot in bracket.

(6) Move seat lock aft until forward end will drop below seat base and provide access to recline cable connection.

(7) Disconnect ball end of cable to free cable from seat lock.

(8) Pull seat lock forward at an angle to remove it from the seat base.

C. Install Seat Back Lock.

(1) Insert lock at angle through back rail of seat base.

(2) Connect seat lock cable to seat lock lever.

(3) Raise front end of seat lock to near horizontal position and slide forward. Slide front end of seat lock into slot in base bracket. Be sure washers used as shims are in same location as other locks. Tighten front nut.

(4) Install spring between seat lock and seat base assembly.

(5) Install breakover mechanism on aft end of seat lock with bolt, washer and nut.

(6) Pull back of seat up to lock in vertical position.

(7) If seat back does not line up with adjacent seat back, adjust (refer to Adjustment/Test Cabin Seats).

(8) Check cable for adjustment; (refer to Adjustment/Test Cabin Seats).

4. Removal/Installation Seat Back Lock Control Cable (see Figure 203)
(Not applicable to first-class seats on airplanes CV1 through CV25.)

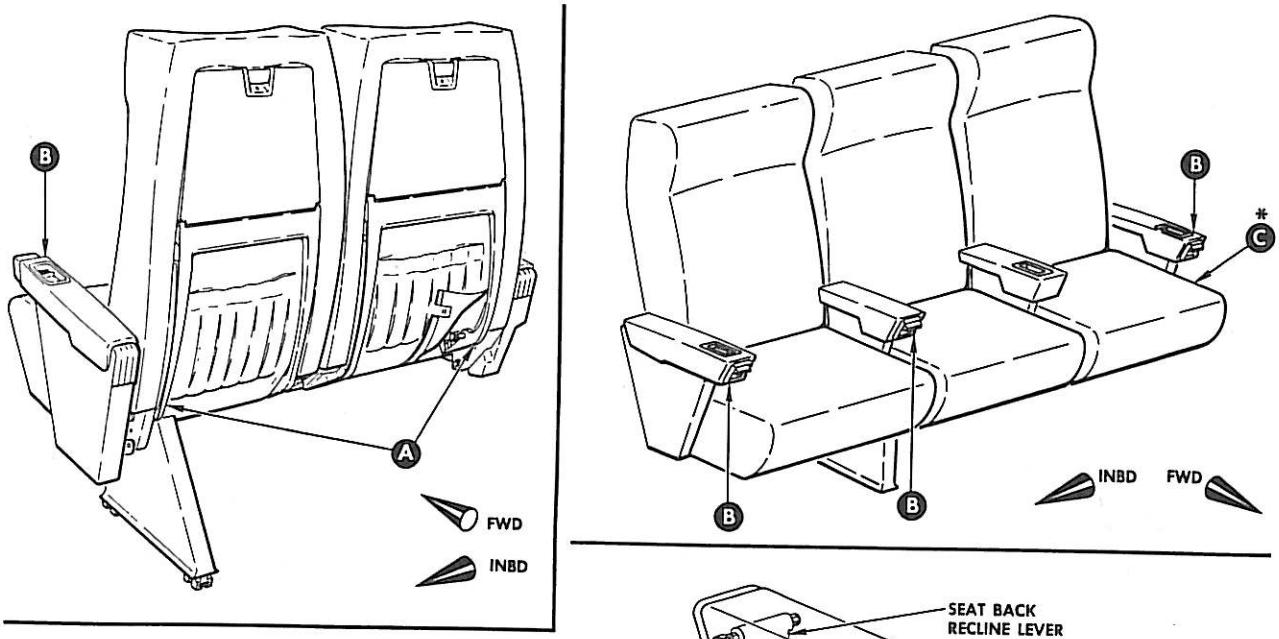
A. Equipment Required - None.

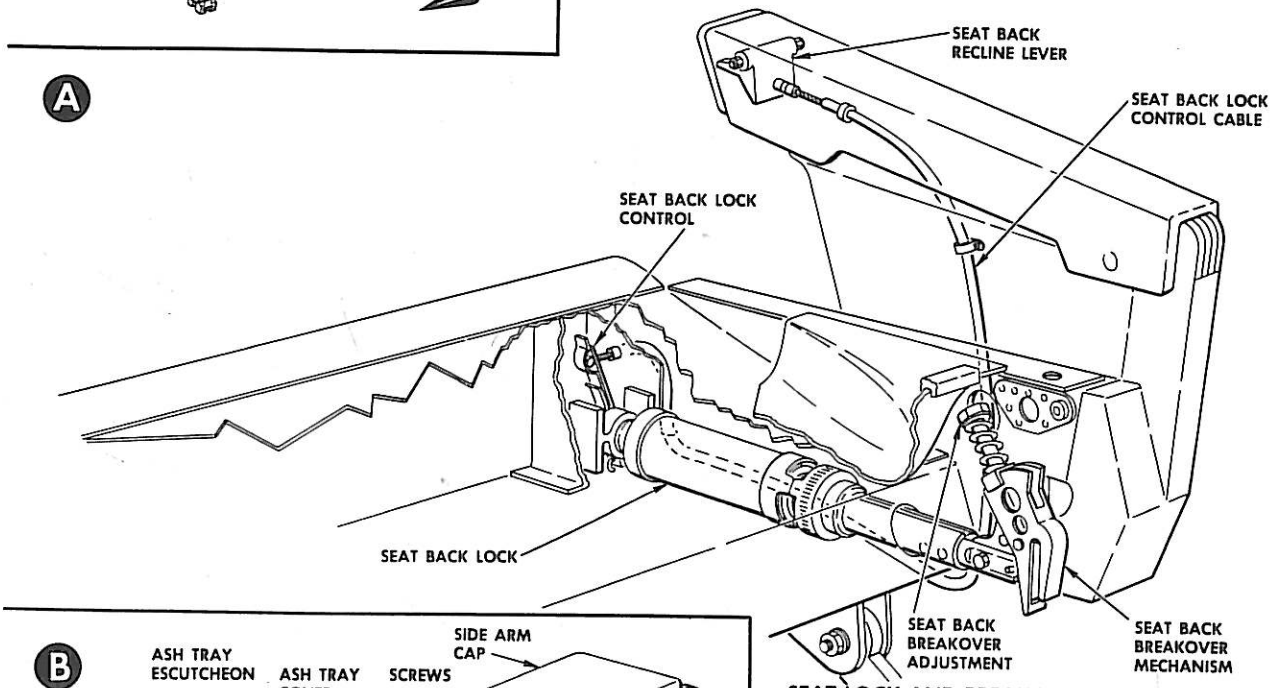
B. Remove Seat Back Lock Control Cable.

(1) Remove ash tray on inboard and outboard armrest only.

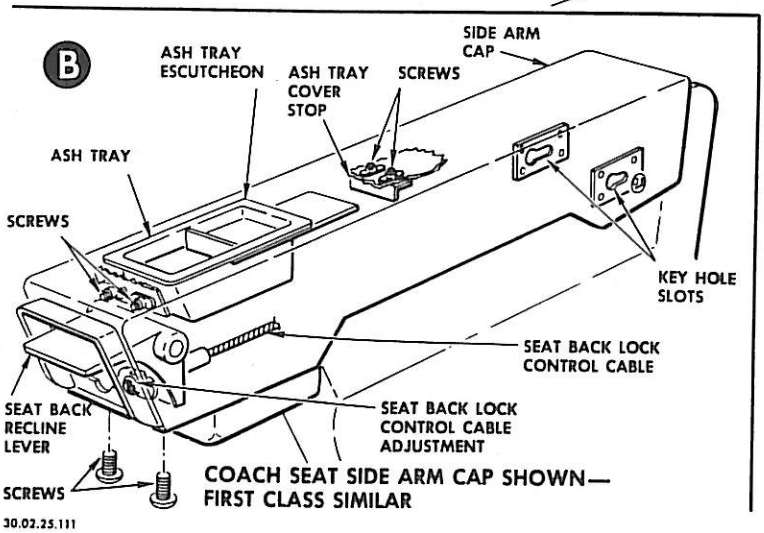
(2) Unscrew (clockwise) seat back lock control cable terminal at recline control lever.

NOTE: Access to upper end of cable at seats adjacent to emergency exits is made at the cable control handle located in the outboard seat fairing.



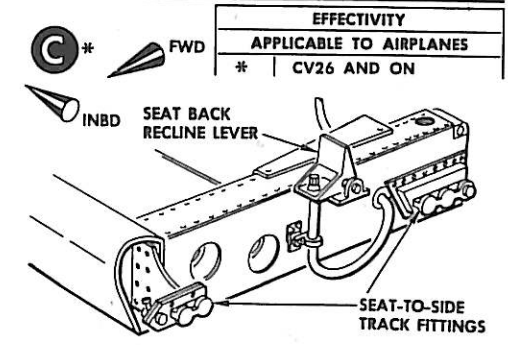


SEAT LOCK AND BREAKOVER MECHANISM



COACH SEAT SIDE ARM CAP SHOWN—
FIRST CLASS SIMILAR

30.02.25.111



SEAT BACK RECLINE LEVER ON
OUTBOARD SEAT AT EMERGENCY EXITS

2. Removal/Installation Main Cabin Seat Back and Tray (see Figure 202)
(Not applicable to first-class seats on airplanes CV1 through CV25.)

A. Equipment Required - None.

B. Remove Cabin Seat Back and Tray.

(1) Strip bottom of seat back cover from seat base.

(2) Pull each seat back attach pin until seal back is free from seat base, but not far enough to release tray assembly from back.

(3) Grasp aft side of seat back assembly, depress seat to release back from breakover, and remove with an upward motion. Use caution to clear breakover fork.

(4) After complete removal of seat back and tray assembly from seat base, remove tray assembly from seat back by pulling seat back attach pins.

C. Install Cabin Seat Back and Tray.

(1) Place tray assembly in proper position in recess of seat back so that latch at upper end of tray assembly engages with latch in seat back.

(2) Install the two seat back attach pins by inserting through tray assembly arms and into seat back pivots. Do not allow attach pins to project beyond outside edge of seat back pivots.

(3) Lift seat back and tray assembly into position on seat base.

(4) Align attach pins with appropriate holes in seat base and push completely in. Pin in extended leg of back must engage slot in breakover mechanism attached aft of seat lock unit.

(5) Check operation of seat (refer to Adjustment/Test Main Cabin Seats).

(6) Attach seat back upholstery flap to seat base.

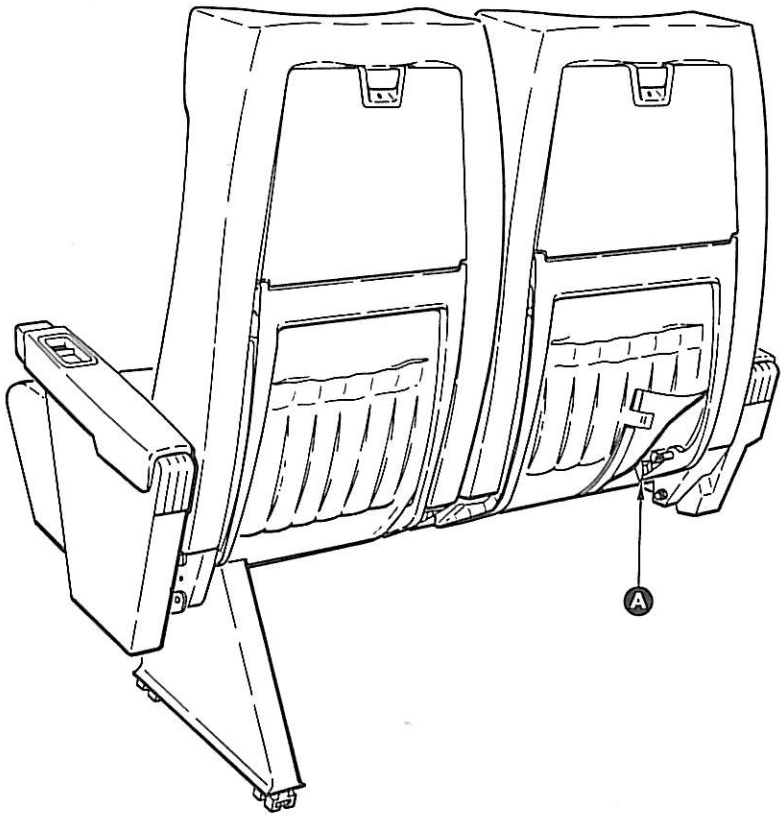
3. Removal/Installation Seat Back Lock (see Figure 203)
(Not applicable to first-class seats on airplanes CV1 through CV25.)

A. Equipment Required - None.

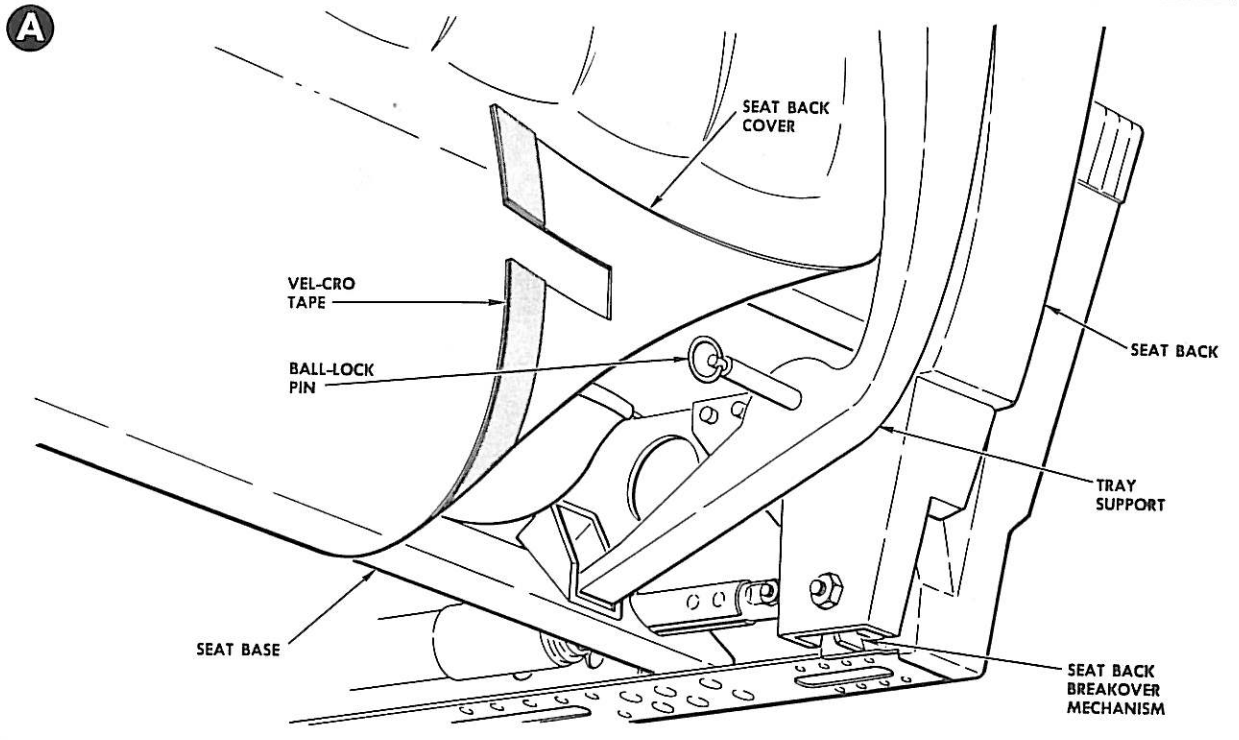
B. Remove Seat Back Lock.

(1) Strip bottom of seat back cover from seat base to gain access to seat lock mounted under seat.

(2) Remove bolt, washers, and nut attaching breakover mechanism to seat lock.



CABIN PASSENGER SEATS–VIEW LOOKING OUTBOARD RH SIDE



(7) (Applicable to first-class seats on airplanes CV1 through CV25.) Rotate seat-to-side track aft fitting release pin handle clockwise on RH seat (counterclockwise on LH seat) one-fourth turn.

(8) Move seat forward or aft one-half inch to allow seat fittings to release from seat side track and floor track.

(9) Remove seat.

C. Install Main Cabin Seats.

(1) Position seat at desired location in cabin.

(2) Insert seat side track fitting into seat side track and support seat at outboard side.

(3) Lower seat floor track fittings into floor track.

(4) Move seat forward or aft one-half inch.

(5) (Not applicable to first-class seats on airplanes CV1 through CV25.) Lock seat into side track by releasing seat-to-side track aft fitting release pin into seat side track hole.

(6) (Applicable to first-class seats on airplanes CV1 through CV25.) Rotate seat-to-side track aft fitting release pin handle counterclockwise on RH seat (clockwise on LH seat) one-fourth turn.

CAUTION: DETERMINE THAT PIN HAS ENGAGED TRACK BY ATTEMPTING TO MOVE INBOARD SIDE OF SEAT FORWARD OR AFT. SEAT SHOULD NOT MOVE.

(7) (Not applicable to first-class seats on airplanes CV1 through CV25.) Engage seat back with seat back lock and breakover mechanism.

(8) Lock seat-to-floor track aft fitting to track by pushing in and turning lock pin clockwise until red arrow on lock pin head aligns with red dot on fitting. Release pressure on lock pin.

CAUTION: ARROW ON HEAD OF LOCK PIN MUST ALIGN WITH RED DOT ON FITTING AND PIN MUST POP OUT WHEN FITTING IS LOCKED TO FLOOR TRACK.

(9) Turn lever on seat-to-side track forward fitting until all looseness is eliminated.

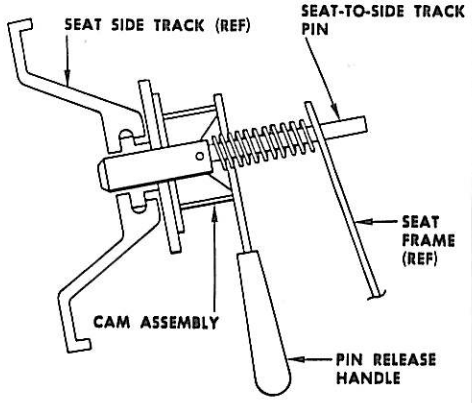
(10) Turn slotted screw clockwise in seat-to-floor track forward fitting until all looseness is eliminated.

(11) Snap all seat track vinyl inserts in place between seat-to-track fittings.

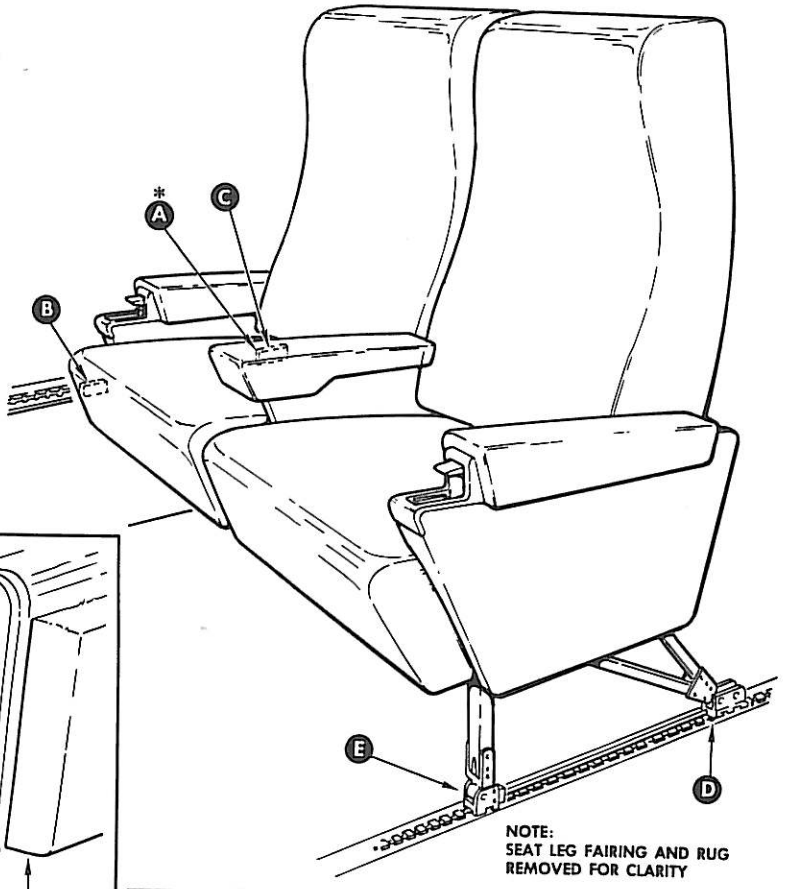
A

EFFECTIVITY	
APPLICABLE TO AIRPLANES	
*	CV1 THROUGH CV25

NOTE:
FIRST CLASS SEATS ONLY

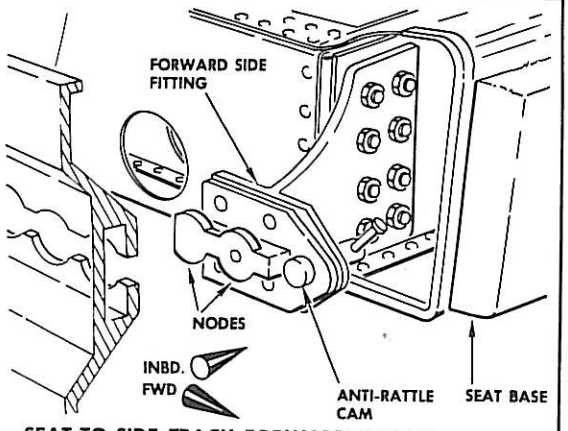


SEAT-TO-SIDE TRACK AFT FITTING



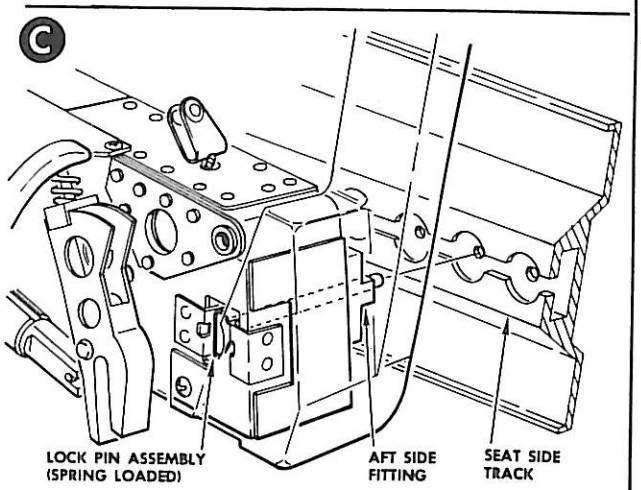
NOTE:
SEAT LEG FAIRING AND RUG REMOVED FOR CLARITY

B



SEAT-TO-SIDE TRACK FORWARD FITTING

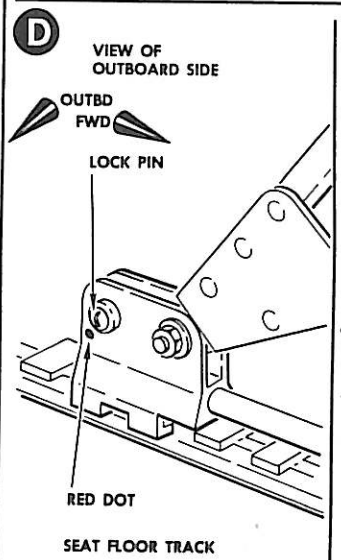
C



SEAT-TO-SIDE TRACK AFT FITTING

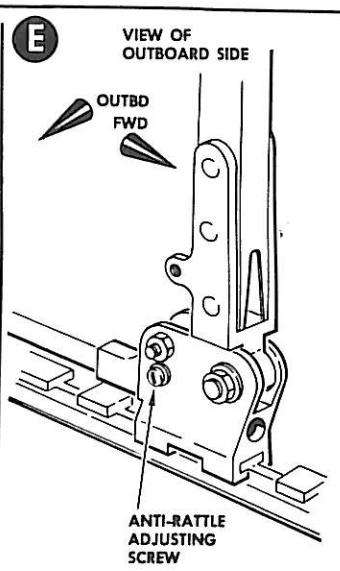
30.30.25.003C

D



SEAT-TO-FLOOR TRACK AFT FITTING

E



SEAT-TO-FLOOR TRACK FORWARD FITTING

MAIN CABIN SEATS - MAINTENANCE PRACTICES

1. Removal/Installation Main Cabin Seats (see Figure 201)

   A. Equipment Required - Shop fabricated tool to release seat aft fitting pin. Tool fabricated from eight-inch length of metal, 0.125-inch thick and 0.5-inch wide with hook at one end.

   B. Remove Main Cabin Seats

      (1) Remove seat side track and seat floor track vinyl inserts between seat fittings.

      (2) Push in and turn locking pin counterclockwise on seat-to-floor track aft fitting to unlock fitting from floor track.

         NOTE: Red arrow on head of lock pin will be out of alignment with red dot on fitting and pin will pop out when fitting is released.

      (3) Turn adjusting screw counterclockwise, until it bottoms on seat-to-floor track forward fitting, to loosen fitting on track.

      (4) Turn lever on seat-to-side track forward fitting to loosen fitting on track.

         CAUTION: SUPPORT OUTBOARD SIDE OF SEAT TO PREVENT SEAT FALLING WHEN BOTH FITTINGS ARE RELEASED FROM SIDE TRACK.

      (5) (Not applicable to first-class seats on airplanes CV1 through CV25.) Gain access to seat-to-side track aft fitting attach pin as follows:

         (a) Remove center arm rest on double seat or outboard center arm rest on triple seat.

         (b) Breakover outboard seat back from normal erect position by pushing back forward (approximately 30 pounds force required).

         (c) Close seat back breakover mechanism with forward pressure applied to breakover fork.

         (d) Using seat back as a lever, retract seat back lock into seat base. Lock in place with recline lever.

         (e) Breakover seat back until side track attach pin access hole is exposed.

      (6) (Not applicable to first-class seats on airplanes CV1 through CV25.) Pull seat-to-side track aft fitting release pin (with shop fabricated tool) and rotate pin 90 degrees to index release pin handle in detents.

POSSIBLE CAUSE	ISOLATION PROCEDURE AND CORRECTION
4. TRAY NOT HORIZONTAL WHEN DOWN	
A. Support stops moved.	At rear of base, loosen bolts to set stops so that tray lip is clear of seat back when seat back is fully reclined. Both stops must contact support. Tighten bolts.
B. Tray set screws out of adjustment.	Adjust upper set screws at tray pivot point to bring tray horizontal.
5. BACK DOES NOT LOCK IN NORMAL POSITION BUT FOLDS OVER WHEN PUSHED	
A. Broken breakover (at lower rear of seat back, aft of seat lock).	Fold back forward. Remove nut, washer, and bolt and remove breakover. Install new breakover with same hardware. See that slot fits leg of back as back is pulled to normal position.
6. BACK DOES NOT FOLD FORWARD ON IMPACT	
A. Maladjusted breakover.	At lower rear, adjust bolt to reduce tension on breakover spring until back folds on pull of 30 to 35 pounds.
7. ASH TRAY LID BROKEN	
A. Handling damage, forced too far open or bent.	Remove armcap from armrest. Replace ash tray lid. Install armcap.

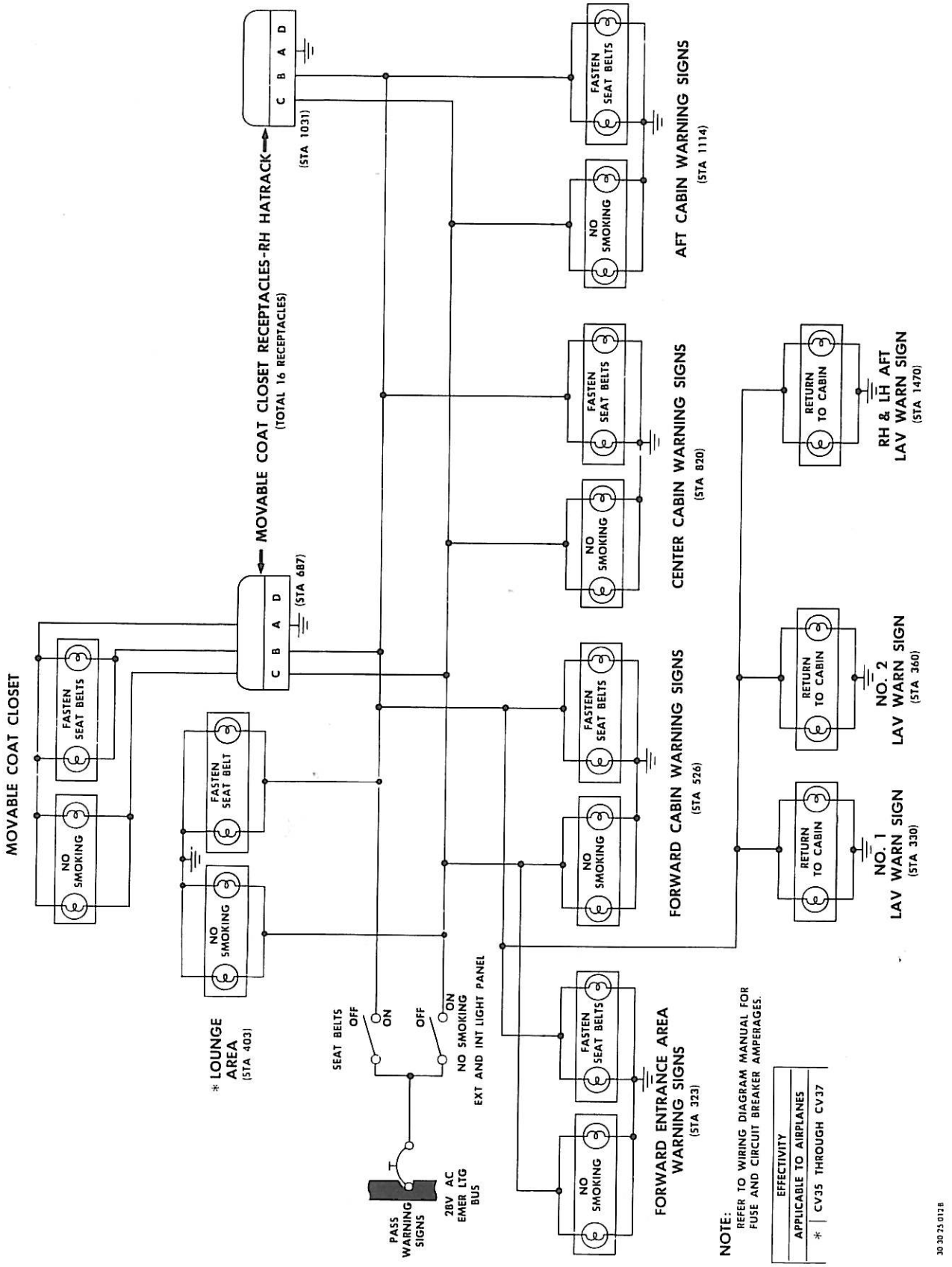
MAIN CABIN SEATS - TROUBLE SHOOTING

(Not applicable to first-class seats on airplanes CV1 through CV25.)

POSSIBLE CAUSE	ISOLATION PROCEDURE AND CORRECTION
1. RECLINE CONTROL LEVER WILL NOT LIFT OR LIFTS BUT DOES NOT UNLOCK SEAT BACK (APPLIES TO BOTH RECLINE AND RECOVERY)	
A. Broken or sticking components in cable or linkage between recline control lever and seat back lock.	Check recline control lever, cable terminals and nylon housing for damage. Replace damaged or broken parts.
B. Seat back lock actuating lever improperly adjusted.	Actuate recline control lever and observe movement of actuating lever on seat back lock. If actuating lever moves but does not release seat back lock, adjust actuating lever until seat back lock releases. Adjust seat back lock control cable.
C. Defective seat back lock.	Replace seat back lock.
2. RECLINE CONTROL LEVER LIFTS BUT WILL NOT RETURN	
A. Broken spring at seat lock.	Inspect under seat base assembly for loose or broken springs; if broken, replace.
B. Cable binding or sticking.	Feel for bind at lower end of cable. Check for bind at upper end. Correct as necessary.
C. Cable not in adjustment.	Adjust cable terminal installed through nut plate on recline control lever.
D. Broken torsion spring in recline control lever.	Check at pivot of recline control lever for loose or broken spring; replace if broken.
3. TRAY WILL NOT LATCH CLOSED	
A. Defective latch.	Replace latch.
B. Defective keeper.	Free seat cover around keeper. Carefully loosen foam with sharp knife to reach keeper screws. Remove screws and slide keeper to side to remove. Install new keeper and check that tray is pulled in tight when latched. Add or remove shims as required. When set, cement foam and smooth out cover.

10. Cabin Thermometers

Two thermometers are located in the cabin area. One is located near the door on the aft side of the cabin forward right-hand partition and one on the forward side of the cabin aft left-hand partition.



Passenger Warning Sign Schematic
Figure 3

The ceiling panels are made of 3/4-inch Stafoam cemented to preformed 2024 aluminum alloy sheet. The panels are edged with spruce strips and covered with an acoustic type vinyl fabric. The fabric is secured only at the edges and has a slight drape away from the curved contour of the panel. The panels are installed with screws on all four edges. Butt joints between panels are filled with sponge rubber roll and neoprene extrusion for trim and acoustical sealing. The butt joint between the ceiling dropped panels and the ceiling side panels is concealed by a cap strip. The outboard edges of the ceiling raised panels are concealed by the lighting cove.

F. Emergency Exit Trim.

The emergency exit trim assembly inner and outer panels are preformed Boltaron material of double-wall construction with insulation material between the walls. The emergency exit door window curtain is an integral part of the trim assembly. The curtain operates up and down on a cable and pulley arrangement. The emergency exit trim assembly must be removed to gain access to the curtain mechanism.

8. Passenger Warning Signs

The passenger warning signs are the illuminated FASTEN SEAT BELTS - NO SMOKING signs and the lavatory RETURN TO CABIN signs (see Figure 3). There are six FASTEN SEAT BELTS - NO SMOKING signs. Four are located on the ceiling headers at stations 323, 526, 820 and 1114. One is located on the rear of the aft right-hand movable coat closet and one in the lounge area. A RETURN TO CABIN sign is located in each of the forward lavatories and one is installed in the dividing partition of the aft lavatories.

The FASTEN SEAT BELTS circuit and the NO SMOKING circuit are controlled by separate two-position switches located on the pilots' overhead switch panel. Both circuits receive power from the 28-volt, ac emergency lighting bus and both are protected by the PASS WARNING SIGNS circuit breaker. The lavatory RETURN TO CABIN signs are a part of the FASTEN SEAT BELTS circuit and are illuminated whenever the FASTEN SEAT BELTS switch is turned ON.

Electrical receptacles, for connecting the movable coat closet warning sign, are installed in the sound barrier panel of the right-hand hatrack. These receptacles are spaced so that the coat closet can be installed anywhere between stations 687 and 1031.

9. Food Tray Stowage

Eight food trays are stowed in the stowage compartment just aft of buffet No. 2, three trays are stowed in the right movable coat closet and two trays are stowed in the left movable coat closet. Trays are provided for use on the seats aft of the cabin forward partitions and movable coat closets and on the lounge seats.

As with most trim panel installations, the butt and top joints of the wainscot panels are closed with sponge rubber roll and neoprene extrusion.

C. Window Trim Panels (see Figure 201, Section 25-2-5).

The window trim panels are of preformed sandwich construction and consist of Spongex insulation material between laminated fiberglas panels. The exposed surfaces of the panels are covered with a vinyl cloth to match the decor of the compartment. The window curtains are an integral part of the panels and operate up and down on cables and pulleys. The window trim panels must be removed to gain access to the curtain mechanism.

The bottom edge of the window trim panels shares common attachment points with the upper edge of the wainscot panels and is secured with screws; the joint is closed with sponge rubber roll and neoprene extrusion. The window trim panels are secured at the butt joints between the trim panels by screws in metal clips. These screws also secure a trim channel and trim strip to cover the butt joint; the trim strip must be removed to gain access to the screws. The window trim panels are secured at the bulkhead butt joints with screws; the joints are closed with sponge rubber. The top edge of the window trim panels is held in place by a channel just below the cabin air inlet escutcheon. The edge of the panel is pressed against a 3/8-inch strip of Spongex within the channel; no attaching hardware is required at the top of the panel.

D. Ceiling Side Panels (see Figure 201, Section 25-2-7).

The ceiling side panels form the overhead of the hatrack and cover the area from the upper hatrack mounting points to the edge of the ceiling panels. These panels are of preformed sandwich construction with a foam plastic interior between fiberglass exterior. The inboard face of each panel is finished in a vinyl fabric to match the interior of the cabin.

E. Ceiling Raised and Dropped Panels (see Figures 201 and 202, Section 25-2-7).

The ceiling panels cover the overhead area between the left and right ceiling side panels. The level of the ceiling panels is raised approximately five inches above the level of the ceiling side panels in three areas. The ceiling is raised between stations 526 and 747, stations 820 and 1041, and stations 1115 and 1335. This variation of ceiling levels breaks the contour of the trim and reduces the "tunnel-look" of the cabin. In remaining ceiling areas, the ceiling dropped panels are mounted flush with the upper edges of the ceiling side panels, with their preformed contour matching the upward curve of the cabin wall. The ceiling raised panel areas include indirect lighting along each side, and passenger warning signs on the forward headers.

Access to the components in the convenience pods and the public address system speakers is through individual removable covers on top of each unit.

6. Air Distribution Grills

Air distribution grills, located in the left and right cabin walls, extend the full length of the passenger compartment. The perforated metal grills are painted to match the aircraft interior and are installed flush with the interior trim panels. The air-in grill is located just below the hatracks and the air-out grill is located two inches above the cabin floor. These grills are connected to the air-in and air-out vents. For additional information refer to Chapter 21, AIR CONDITIONING.

7. Trim

The interior trim in the passenger compartment is divided into several sections: carpeting, wainscot panels, window trim panels, ceiling side panels, and ceiling panels. All trim is made primarily of synthetic materials that are light, durable and easy to maintain.

A. Carpeting (see Figure 201, Section 25-2-3).

The main cabin floors are covered with wool carpeting installed over one-quarter inch polyurethane (spongy, synthetic) padding. The carpeting extends upward approximately two inches along each side of the cabin and is secured under the lower edge of the cabin air outlet escutcheon. The carpeting and pads are held in place by double-faced (adhesive on both sides) permacel tape attached to all edges and down the middle of each section.

The cove panels, located above the cabin air outlet escutcheon, are also covered with carpeting. This carpeting attaches directly to the cove panels without padding underneath.

B. Wainscot Panels (see Figure 201, Section 25-2-4).

The wainscot panels cover the area between the top of the seat side track and the bottom of the window trim panels. The wainscot panels are a sandwich of Spongex material between layers of fiberglass cloth. The inboard side of each panel is covered with vinyl fabric to match the decor of the section of the cabin in which it is installed.

The wainscot panels are held in place along the bottom by a channel mounted on the top of the seat side track. The edge of the panel is compressed against a strip of Spongex within the channel. The top edge of the wainscot is secured with screws installed in wellnuts on fiberglass brackets which are attached to the airplane structure. These screws also hold the lower edge of the window trim panels. At the butt joints between the wainscot panels, the mounting angles overlap each other and are held together with screws.

3. Lounge Area

The lounge area is located on the left side of the cabin, just aft of the forward main entrance door. The lounge consists of two forward facing and two aft facing passenger seats. The hatrack extends to the lounge forward partition. Two convenience pods are located in the lounge area.

4. Movable Coat Closets

In addition to the stowage of passenger clothing, the movable coat closets serve as cabin dividers. Installed on each side of the aisle in place of one row of seats, two movable coat closets divide the cabin into two compartments. One movable coat closet is installed at the forward right-hand side of the cabin.

A passenger warning sign is located on the aft side of each right-hand closet. Power outlets for these signs are installed in the right-hand hatrack between stations 687 and 1000. The closets use the seat mounting tracks, and can be installed in one-inch increments anywhere within the limits of the tracks and the electrical receptacles, except at the emergency exits.

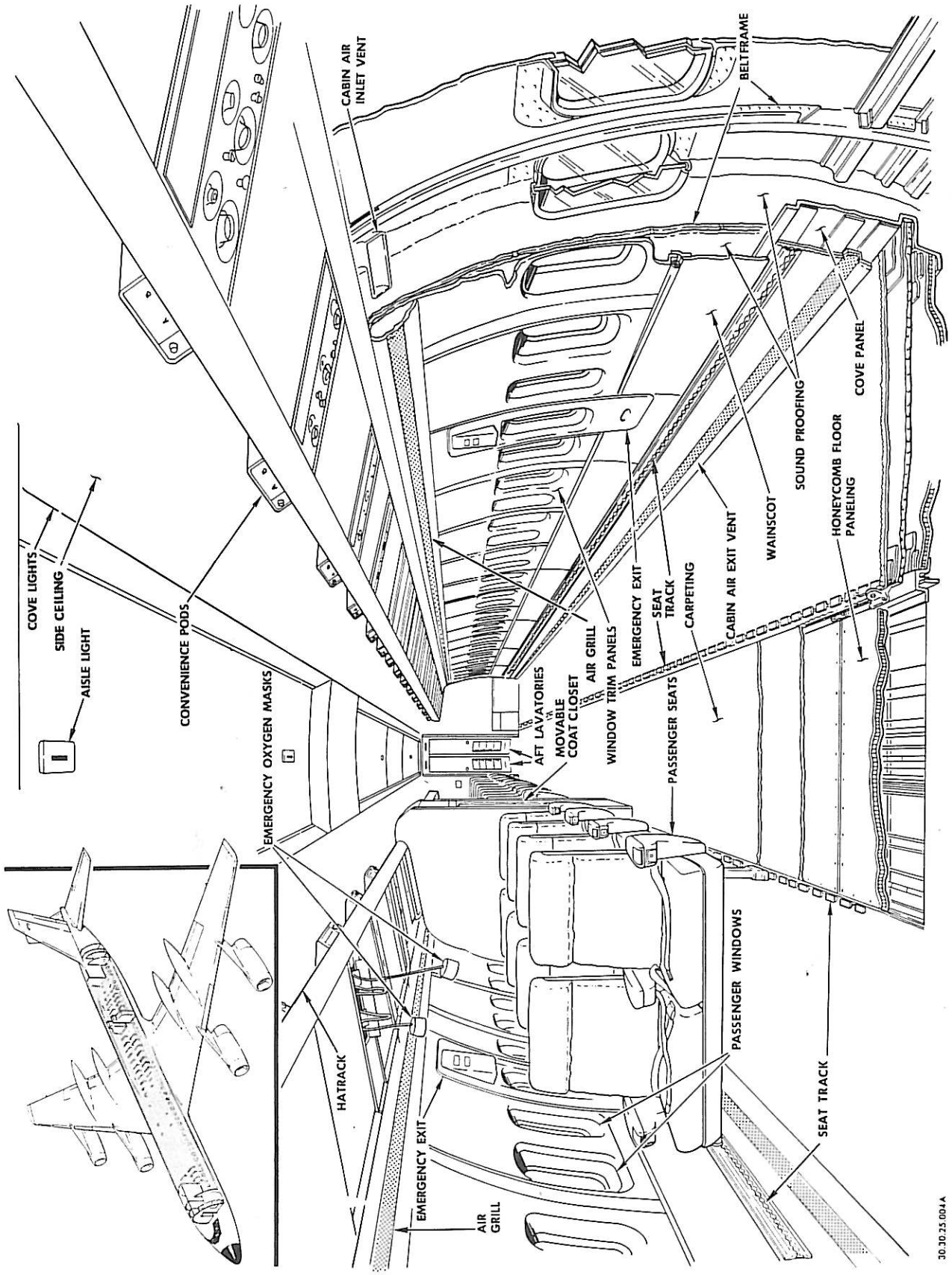
Stowage space for plug-in food trays is available in the closets, and literature pockets are installed on the aft partitions of the passenger compartment.

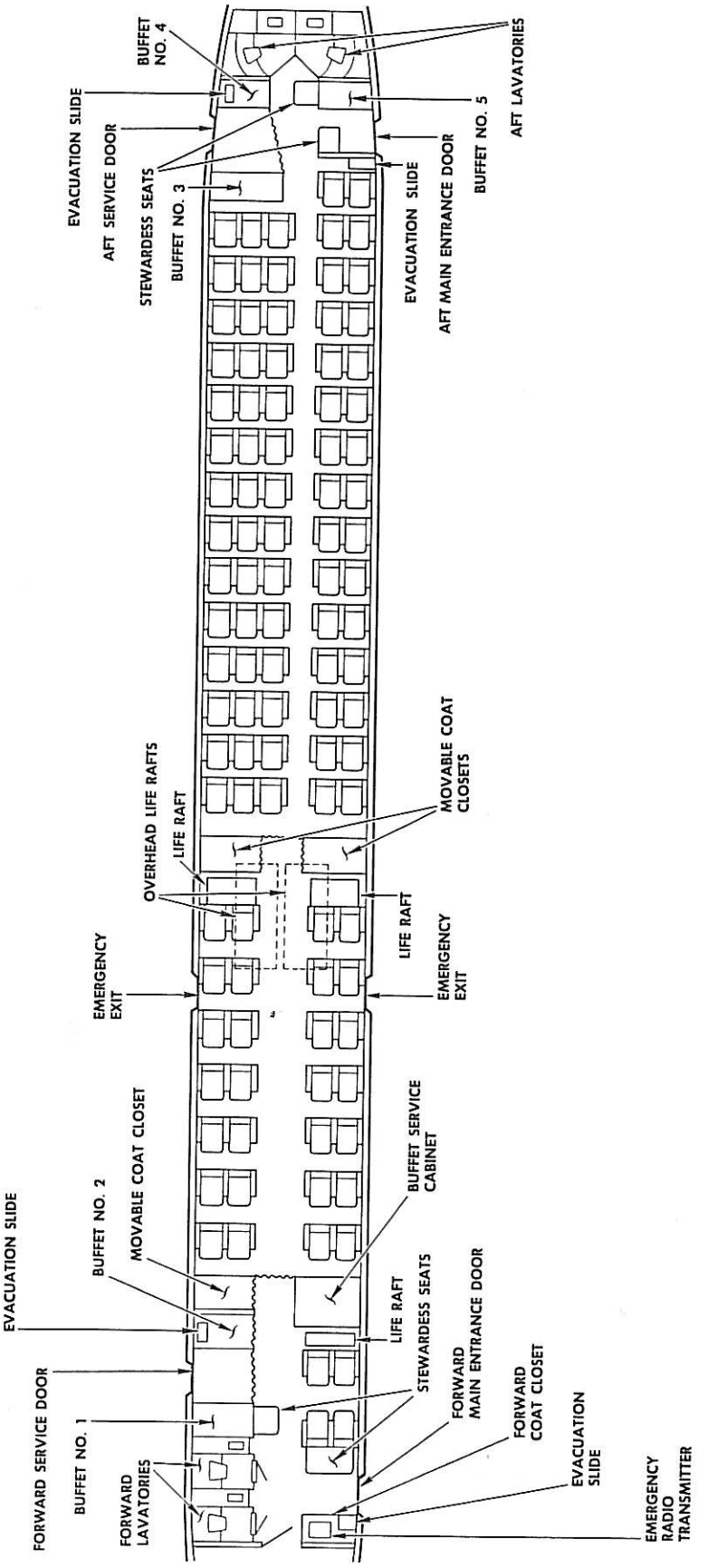
5. Hatracks (see Figure 201, Section 25-2-6)

Two hatracks extend the full length of the passenger compartment, above the passenger seats. The hatracks are used for storage of passenger comfort items and serve as a continuous handrail for passengers walking in the aisle. The hatracks house the public address system speakers and the passenger convenience pods.

The passenger convenience pods contain reading lights, individual adjustable air outlets, stewardess call buttons and emergency oxygen masks. The right-hand pods are equipped to serve three passengers while the left pods are equipped to serve two passengers. The standard interior arrangement is based on 38-inch seat (and pod) spacing and includes 26 left-hand pods and 22 right-hand pods. In line with seat and coat closet position flexibility, the pods and speakers are adjustable fore and aft in one-inch increments, with a pod spacing of 34 inches and more available. Spacing of less than 38 inches requires addition of pods or panels to the hatracks; spacing greater than 40 inches requires spacer panels.

The convenience pods are attached to upper and lower support rails at the fuselage structure. The hatrack handrail is attached to the inboard end of each convenience pod. Adjustable panels between the convenience pods extend from the convenience pod lower support rail to the hatrack handrail. Public address system speakers located in the hatrack between the convenience pods are also adjustable fore and aft for positioning in relation to the seat position.


CABIN AIR INLET VENT
BELTFRAME
COVE LIGHTS
SIDE CEILING
AISLE LIGHT
CONVENIENCE PODS
EMERGENCY OXYGEN MASKS
AFT LAVATORIES
MOVABLE COAT CLOSET
AIR GRILL
WINDOW TRIM PANELS
EMERGENCY EXIT
SEAT TRACK
CARPETING
CABIN AIR EXIT VENT
WAINSCOT
SOUND PROOFING
HONEYCOMB FLOOR PANELING
COVE PANEL
PASSENGER SEATS
PASSENGER WINDOWS
HATRACK
EMERGENCY EXIT
AIR GRILL
SEAT TRACK
30.30.25.004A



General Arrangement Passenger Area
Figure 1

PASSENGER CABIN EQUIPMENT AND FURNISHINGS - DESCRIPTION AND OPERATION

1. General

The standard interior arrangement of the airplane includes furnishings and equipment for 32 first-class passengers (including the four lounge seats), 72 coach passengers, and the crew members. The arrangement may be converted to an all first-class configuration, all coach, or other configurations as desired. The furnishings and general arrangement of the passenger cabin in the standard interior configuration are shown in Figures 1 and 2.

2. Passenger Seats (see Figure 201, Section 25-2-1)

The basic seat structure consists of a sheet metal assembly held rigidly in place by spot welds and rivets. The contoured seat back and armrests are padded with an energy-absorbing foam material and covered with a removable tailored fabric cover. To minimize passenger injury, the seat back is designed to collapse forward under a force of approximately 35 pounds. Spring tension required to permit forward collapse of the seat back at the specified force is regulated by the breakover adjustment on the lower portion of the seat.

The seat side fittings attach to the seat side track, which extends from the cabin aft partition to the cabin forward partition. The inboard seat legs attach to the seat floor track. The seats may be positioned as desired along the seat tracks. Exposed sections of the seat side track between the seat fittings are covered with vinyl moulding. Areas of floor track between the seat-to-floor track fittings are filled with vinyl moulding.

The seat arrangement provides seven rows of four-abreast first-class seats in the forward half of the cabin, and fourteen rows of five-abreast coach seats and an aft row of four-abreast coach seats in the rear half of the cabin. Two movable coat closets and a curtain divide the first-class and coach sections.

All seats are equipped with a removable ash tray in the armrest, a seat belt and reclining seat back adjustment controls. All seats except those directly forward of the movable coat closet and the cabin aft partition are equipped with an integral, disappearing food-try on the aft side of the seat back. All coach and first-class seats are provided with fittings for plug-in type food-trays. The outboard armrest for the seats at the emergency exits is attached to the emergency exit door and the wainscot panel.

The tailored slip-on type seat covers are in three sections. Two sections cover the seat back. The seat back cover is attached to the lower front and to the sides and edges of the serving tray recess with strips of Vel-Cro. Vel-Cro attached to the seat back cover at the aft lower edge, and on the lower side of the seat bottom, keeps the cover smooth. A third section covers the seat cushion and is secured to the cushion and under the forward side of the seat with Vel-Cro tape. Provisions for life vest stowage are located on the lower side of each seat base.

C. Install Over-Window Trim.

(1) Check condition of double-face tape on insulation and structure and replace as necessary.

(2) Position foam insulation to structure and press into place.

(3) Install cover over foam insulation.

(4) Reinstall monorail and sun visors (refer to Removal/Installation Pilot's and Copilot's Sun Visors).

B. Remove Sliding Window Trim.

(1) Remove trim screws and washers.

(2) Work insulation covers free of double-face tape and insulation.

(3) Work foam insulation loose from double-face tape and window frame structure.

NOTE: Foam insulation is cemented to lower section of window frame. Remove this portion with solvent.

WARNING: PROVIDE ADEQUATE VENTILATION AND OBSERVE APPROPRIATE SAFETY PRECAUTIONS WHEN USING SOLVENT.

(4) Remove foam insulation.

C. Install Sliding Window Trim.

(1) Check condition of double-face tape around window frame and replace as necessary.

(2) Apply cement along lower section of window inner frame and to mating section of foam insulation.

(3) Position insulation to window frame and press firmly to frame to insure adequate bonding.

(4) Check adhesive quality of double-face tape on foam insulation and replace as necessary.

(5) Reinstall insulation covers, washers, and screws.

(7) Cement small triangular cover in place at aft lower corner of window frame.

3. Removal/Installation Over-Window Trim (see Figure 201)

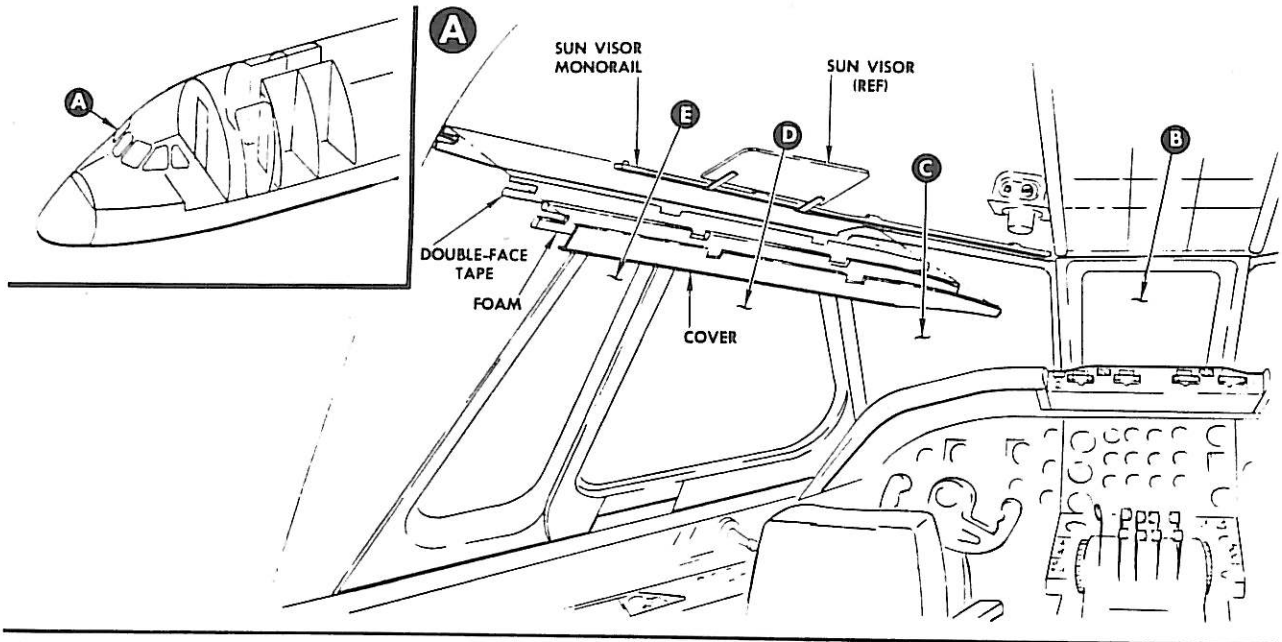
A. Equipment Required - Tape - Permacel No. 50 (Industrial Tape Corp.) or equivalent.

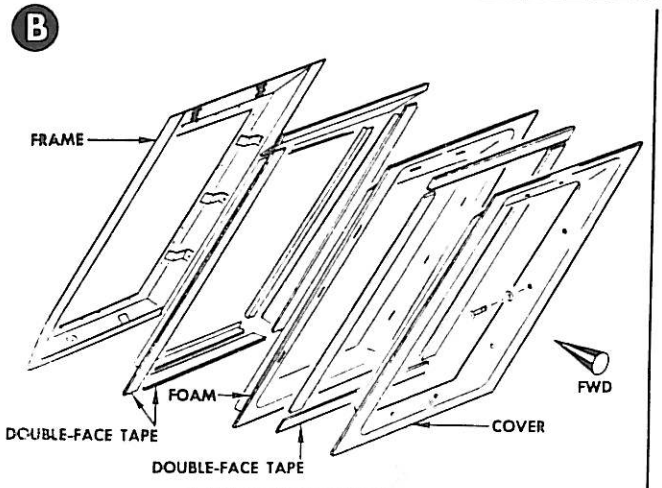
B. Remove Over-Window Trim.

(1) Remove sun visors and monorail (refer to Removal/Installation Pilot's and Copilot's Sun Visors).

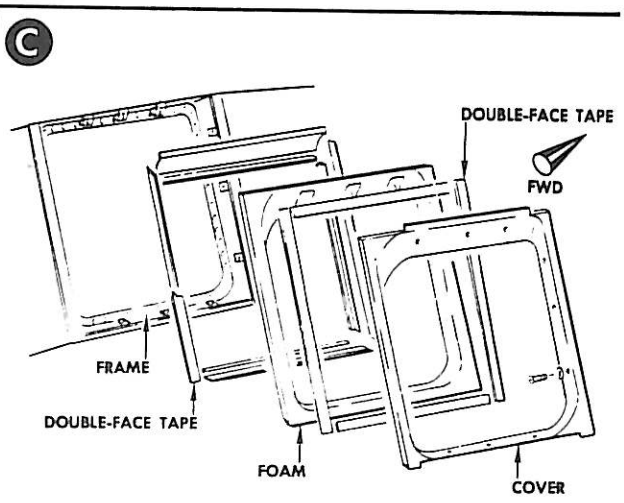
(2) Remove covers from insulation.

(3) Remove foam insulation from double-face tape on structure.

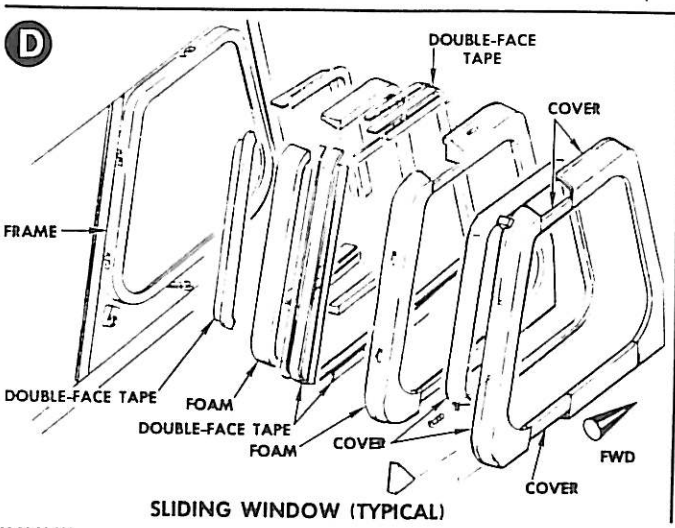




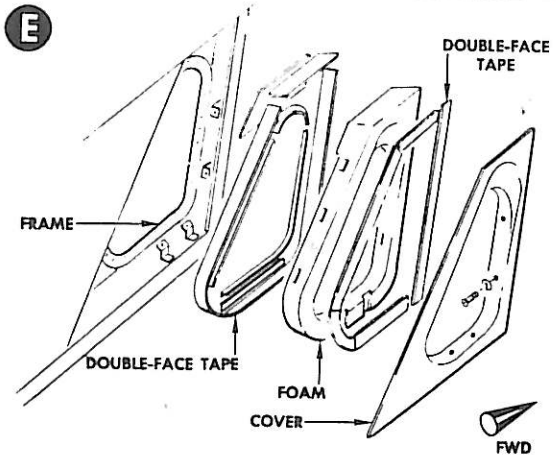
CENTER WINDSHIELD



PILOT'S WINDSHIELD SHOWN — COPILOT'S SIMILAR



SLIDING WINDOW (TYPICAL)



SIDE WINDOW (TYPICAL)

22 02 25 288

Flight Compartment Windshield and Window Trim Installation
Figure 201

FLIGHT COMPARTMENT WINDSHIELD AND WINDOW TRIM - MAINTENANCE PRACTICES

1. Removal/Installation Windshield and Aft Window Trim (see Figure 201)

NOTE: The flight compartment windshield and window trim consists of foam rubber insulation and Royalite covers. The trim is installed with double-face tape, rubber cement, screws and washers and must be removed prior to windhsield or window glass removal.

A. Equipment Required - Tape, Permacel No. 50 (Industrial Tape Corp.) or equivalent.

B. Remove Windshield and Aft Window Trim.

(1) Remove trim screws and washers.

(2) Carefully work covers free of double-face tape and foam insulation.

(3) Work foam insulation loose from double-face tape and attaching clips. Use care not to tear foam insulation at cut-outs for attachment clips.

(4) Remove foam insulation.

C. Install Windshield and Aft Window Trim.

(1) Check condition and adhesive quality of tape on windshield or window frame structure.

(2) Insure that foam insulation contacting surfaces are clean and free of dirt.

(3) Position insulation to windshield or window frame. Work insulation over attachment clips through openings in insulation.

(4) Starting at lower side of frame, progressively work and press foam insulation to tape.

(5) Check adhesive qualitites of double-face tape on foam insulation. Replace tape if necessary.

(6) Reinstall insulation cover, washers and screws.

2. Removal/Installation Sliding Window Trim (see Figure 201)

A. Equipment Required.

(1) Cement - T-161 (American Latex Products Corp.) or equivalent.

(2) Tape - Permacel No. 50 (Industrial Tape Crop.) or equivalent.

(3) Solvent - aliphatic naphtha or equivalent.

FLIGHT COMPARTMENT CURTAIN - MAINTENANCE PRACTICES

1. Removal/Installation Flight Compartment Curtain

   A. Equipment Required - None.

   B. Remove Curtain.

      (1) Open access door located in top of nose landing gear wheel well.

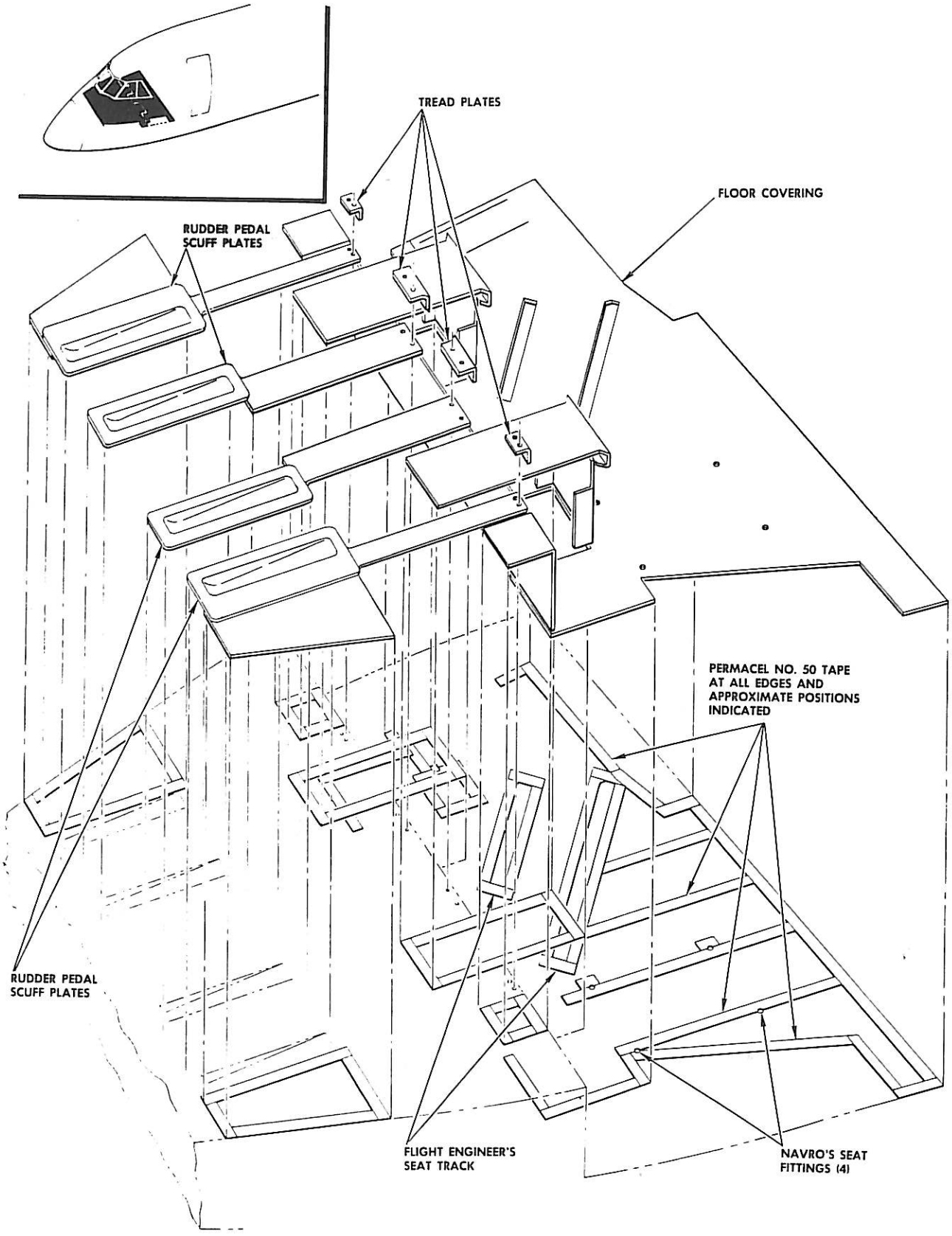
      (2) Disconnect curtain fasteners.

   C. Install Curtain.

      (1) Place curtain in position and connect fasteners at top of curtain.

      (2) Connect remaining fasteners.

      (3) Close and secure nose landing gear wheel well door.



10 02 25 047

Flight Compartment Carpet Layout
Figure 201

FLOOR COVERING - MAINTENANCE PRACTICES

1. Removal/Installation Flight Compartment Floor Covering (see Figure 201)

   A. Equipment Required - None.

   B. Remove Flight Compartment Floor Covering.

      (1) Observe Figure 201 and determine carpet section to be removed and note location of tape.

      (2) Remove crew seats as required.

      (3) Remove scuff plates and/or tread plates as required.

      (4) Peel tape up from floor with carpet. Do not attempt to peel carpet from tape. At butt joints trim tape along butt joint.

   C. Install Flight Compartment Floor Covering.

      (1) Fit replacement section of floor covering carefully to airplane.

      (2) Install new double faced tape (Permacel No. 50 or equivalent) for carpet section to be installed, as shown on Figure 201.

      (3) Place carpet section in place and press firmly onto tape.

      (4) Install scuff plates and/or tread plates as required.

      (5) Install crew seats removed for access.

(5) Install screws and washers with 0.2 inch thick spacers between forward and aft sections of panel at center row of screws.

(6) Reinstall oxygen bottles, brackets, regulators and associated equipment (refer to Chapter 35, OXYGEN).

7. Inspection/Check Overhead and Sidewall Trim Panels

A. Visually check the following:

(1) Check for scratches, creases and dents.

(2) Check at attaching screws for tears and cracks.

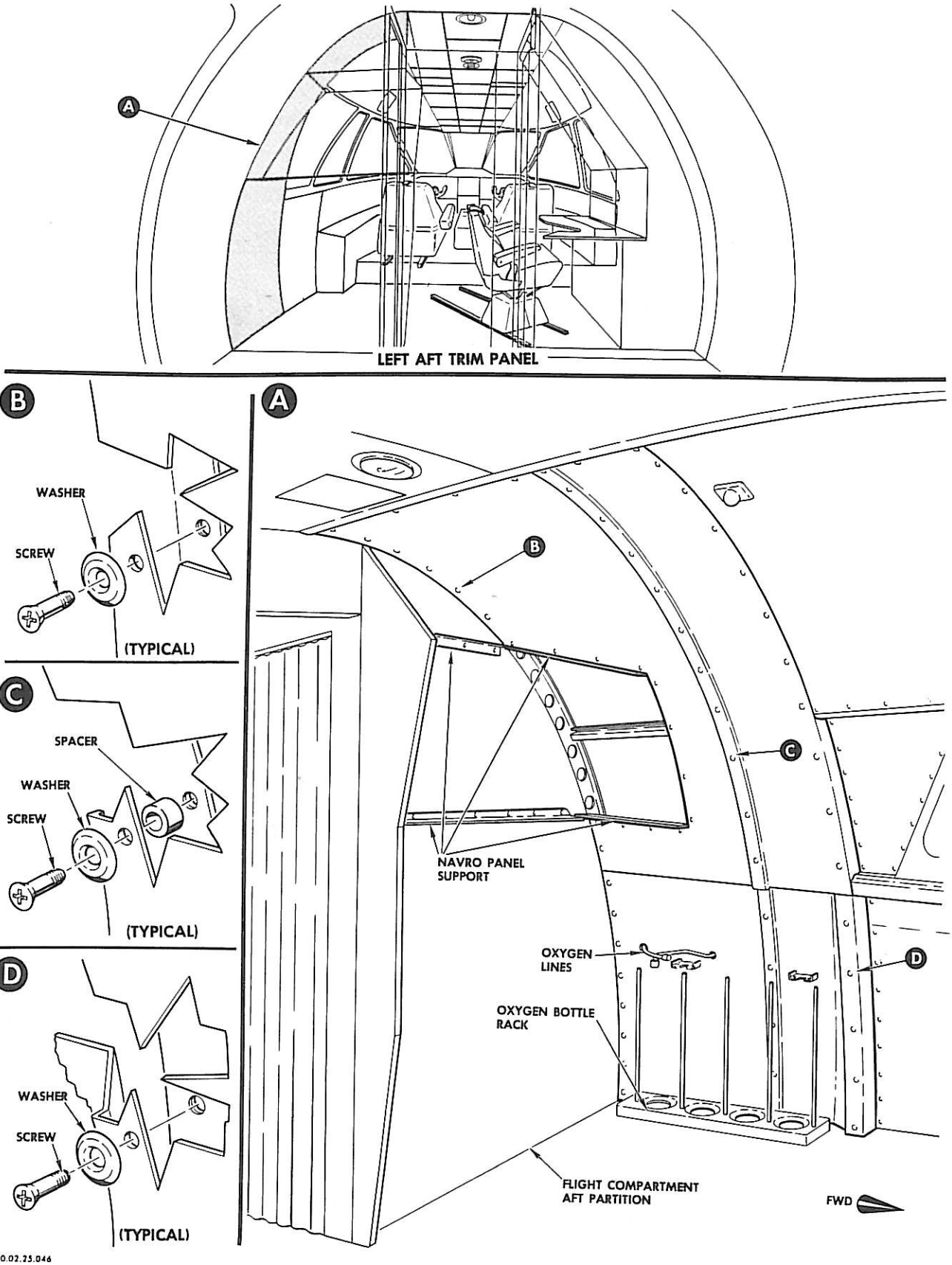
(3) Check for loose attaching screws.

(4) Check for worn spots.

(5) Check for cleanliness.

(6) Check for general condition of moulding around edges.

(7) Check for security of attachment.


A
LEFT AFT TRIM PANEL
B
WASHER
SCREW
(TYPICAL)
C
SPACER
WASHER
SCREW
(TYPICAL)
D
WASHER
SCREW
(TYPICAL)
A
B
C
NAVRO PANEL SUPPORT
OXYGEN LINES
D
OXYGEN BOTTLE RACK
FLIGHT COMPARTMENT AFT PARTITION
FWD
30.02.25.046

B. Install Left Lower Center Trim Panel.

(1) Position panel to structure.

(2) Install screws and washers with spacers located as described in note in removal procedure.

(3) Reinstall oxygen equipment as required (refer to Chapter 35, OXYGEN).

6. Removal/Installation Left Aft Trim Panel (see Figure 204)

A. Remove Left Aft Trim Panels.

(1) Remove oxygen bottles and related equipment as necessary for removal of trim panels.

NOTE: Installed between forward and aft sections of panel at center row of screws are phenolic spacers which are 0.2 inch thick and 0.75 inch in diameter. Do not lose spacers during removal of panel.

(2) Remove trim panel attaching screws.

NOTE: Left aft trim panel consists of four sections, two above the oxygen bottle attaching brackets and two below. The upper sections must be removed and installed in sequence to prevent damaging panels,

(3) Remove lower forward section of panel.

(4) Remove lower aft panel section.

(5) Remove upper forward panel section.

(6) Remove upper aft panel section.

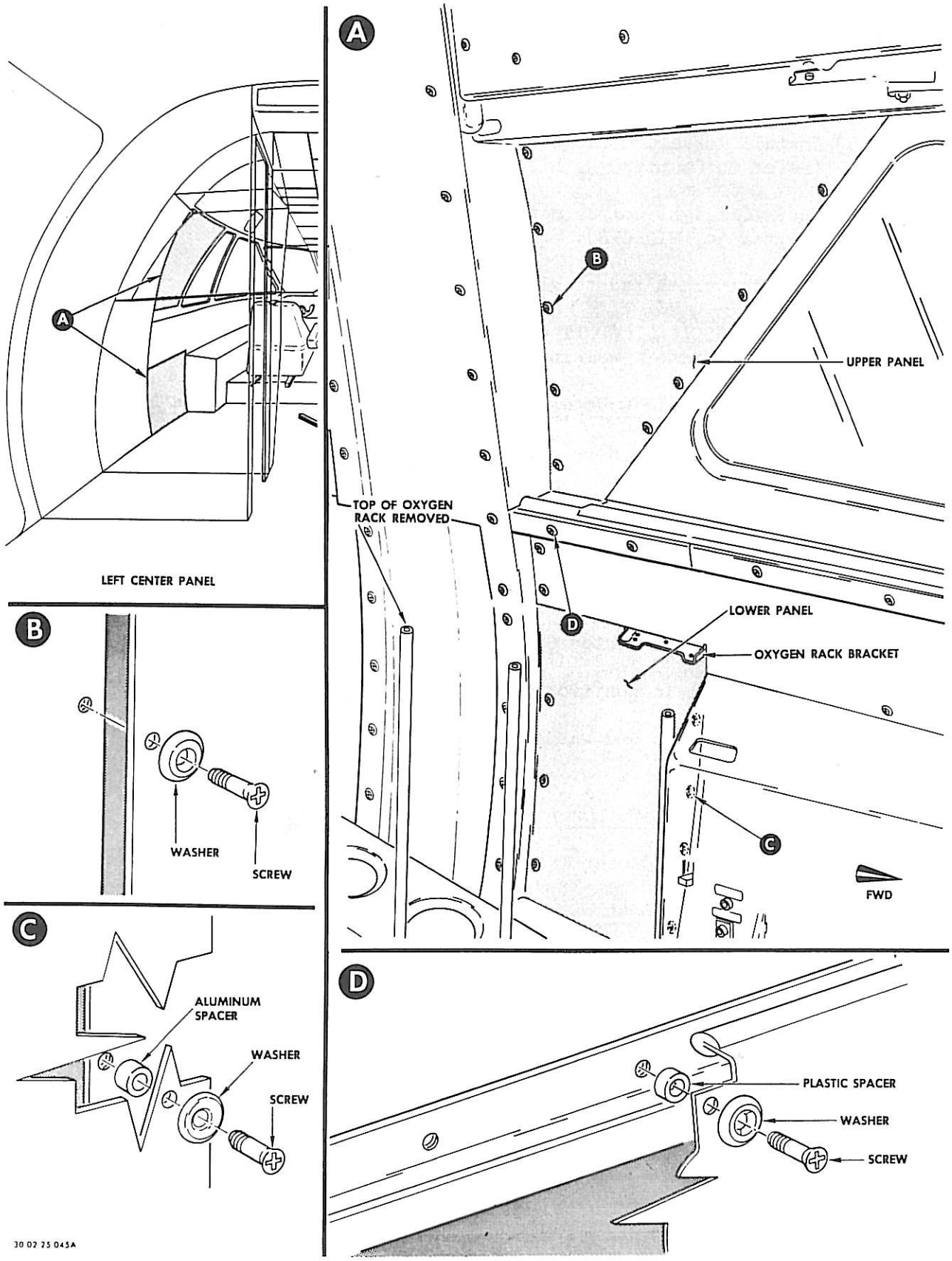
B. Install Left Aft Trim Panel.

(1) Position upper aft panel section to structure. Install screws and washers, except forward row.

(2) Position and install lower aft panel section to structure. Install screws and washers except forward row.

(3) Position upper forward panel section to structure. Carefully work forward overlapping edge under aft edge of center sidewall and overhead trim panels. Install screws and washers except for aft row.

(4) Position lower forward panel section to structure. Work forward edge of panel under aft edge of lower center sidewall trim panel.


A
LEFT CENTER PANEL
B
WASHER
SCREW
C
ALUMINUM SPACER
WASHER
SCREW
A
B
UPPER PANEL
TOP OF OXYGEN RACK REMOVED
D
LOWER PANEL
OXYGEN RACK BRACKET
C
FWD
D
PLASTIC SPACER
WASHER
SCREW
30 02 25 045A

(3) Install screws and washers in ends of trim panel.

(4) Install top row of screws and washers with 0.3-inch thick phenolic spacers between trim and airframe.

(5) Install forward console flood light to angle attached to trim panel (refer to Chapter 33, LIGHTS).

(6) Install flight compartment sliding window control handle (refer to Chapter 56, WINDOWS).

(7) Position crash pad to glare shield and install screws.

(8) Close CONSOLE FLOOD LT circuit breaker on main circuit breaker panel and remove warning tag.

4. Removal/Installation Left Upper Center Sidewall Trim Panel (see Figure 203)

A. Equipment Required - None.

B. Remove Left Upper Center Sidewall Trim Panel.

(1) Remove attaching screws and washers from panel.

(2) Remove panel.

C. Install Left Upper Center Sidewall Trim Panel.

(1) Place panel in position.

(2) Install screws and washers.

5. Removal/Installation Left Lower Center Trim Panel (see Figure 203)

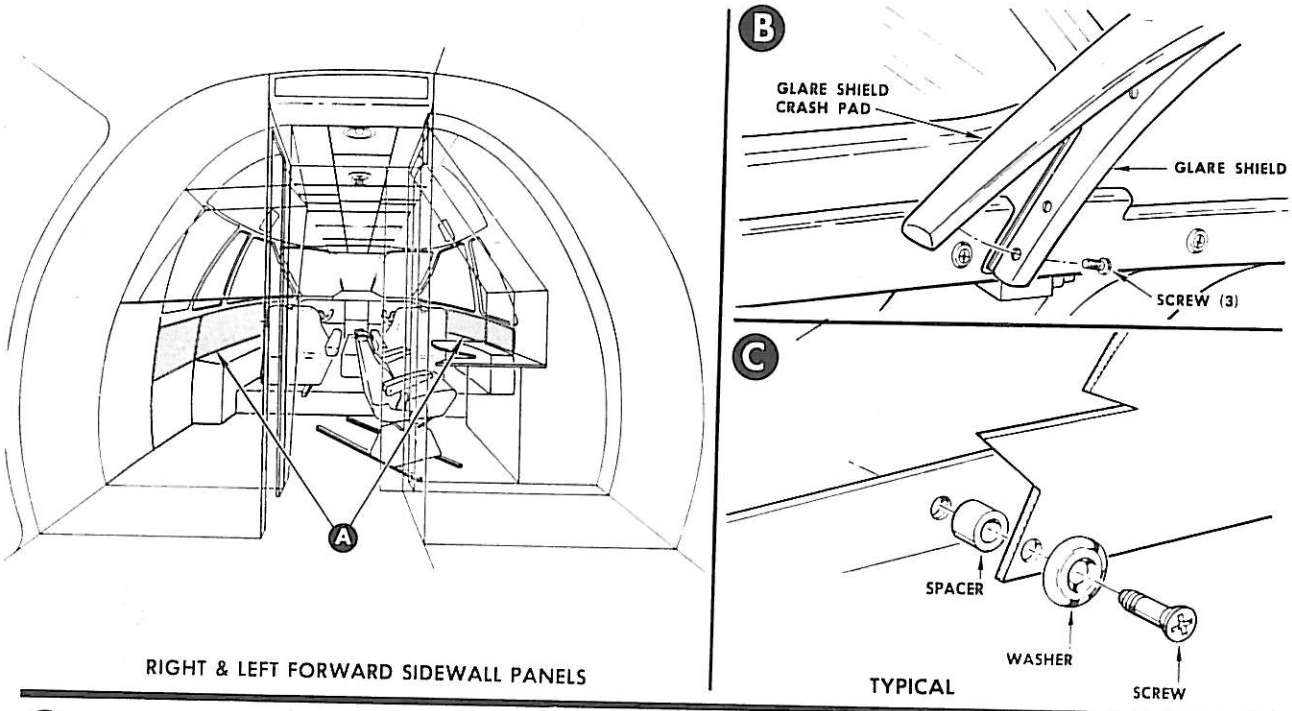
A. Remove Left Lower Center Trim Panel.

(1) Remove oxygen bottles and equipment as necessary to remove panel (refer to Chapter 35, OXYGEN).

(2) Remove trim panel attaching screws and washers.

NOTE: Installed between trim panel and structure at four lower screws in forward row are 0.25 inch thick aluminum spacers which are 0.56 inch in dameter. At the two screws across top of panel are 0.3 inch thick phenolic spacers 0.75 inch in diameter. Do not lose spacers during removal or installation of trim panel.

(3) Remove trim panel.



30 02 25 044A

Left and Right
Forward Sidewall Trim Panel Installation
Figure 202

3. Removal/Installation Left or Right Forward Sidewall Trim Panel (see Figure 202)

A. Equipment Required - None.

B. Remove Left or Right Forward Side Wall Trim Panel.

(1) Open CONSOLE FLOOD LT circuit breaker on main circuit breaker panel and hang warning tag on open circuit breaker.

(2) Remove flight compartment sliding window control handle (refer to Chapter 56, WINDOWS).

(3) Remove forward console flood light from angle attached to trim (refer to Chapter 33, LIGHTS).

(4) Remove top row of screws and washers.

NOTE: Installed between trim panel and airframe along top row of screws are phenolic spacers which are 0.3-inch thick and 0.75 inch in diameter. Be careful not to lose spacers during removal of trim panel.

(5) Remove lower row of screws and washers.

NOTE: Installed between trim panel and air frame at bottom row of screws are phenolic spacers which are 0.2 inch thick and 0.75 inch in diameter. Be careful not to lose spacers during trim panel removal.

(6) Remove screws and washers in end of panel.

(7) Remove four attachment screws from lower end of glare shield crash pad.

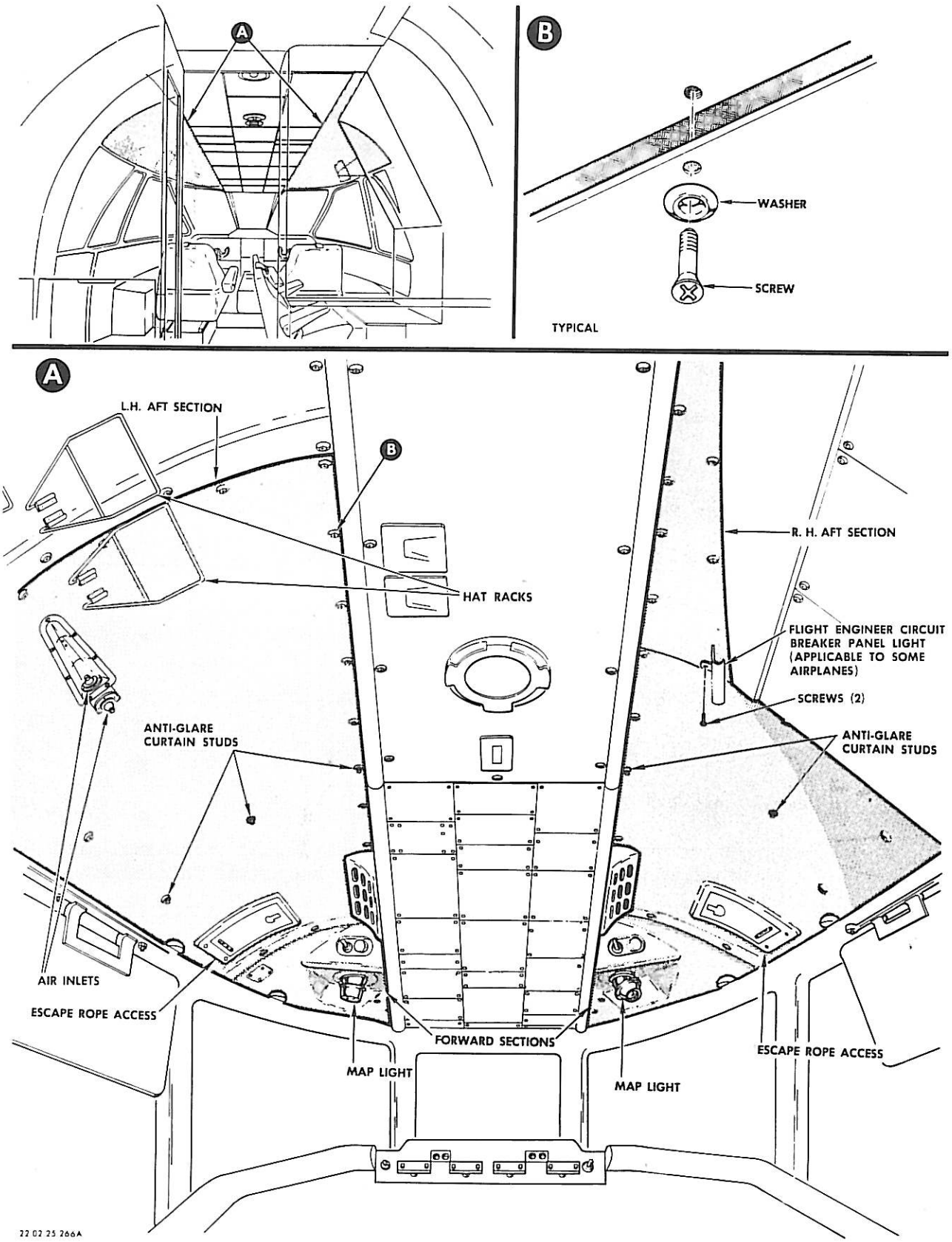
(8) Fold lower end of crash pad upward sufficiently to allow removal of sidewall trim panel without tearing.

(9) Remove trim panel and at the same time guide forward console flood light through opening in panel.

C. Install Left or Right Forward Sidewall Trim Panel.

(1) Place panel in position and at the same time guide forward console flood light through opening in panel.

(2) Install lower row of screws and washers with 0.2-inch phenolic spacers between trim panel and airframe.



Left and Right Upper Trim Panel Installation
Figure 201

OVERHEAD AND SIDEWALL TRIM PANELS - MAINTENANCE PRACTICES

1. Removal/Installation Left and Right Upper Forward Panels (see Figure 201)

   A. Equipment Required - None.

   B. Preparation - Turn off power to map reading lights at switch (refer to Chapter 33, LIGHTS).

   C. Remove Left and Right Upper Forward Trim Panel.

      (1) Remove map reading light housing (refer to Chapter 33, LIGHTS).

      (2) Remove trim attaching screws and washers.

      (3) Remove trim panel.

   D. Install Left and Right Upper Forward Trim Panel.

      (1) Place trim panel in position and install screws and washers.

      (2) Install map reading light (refer to Chapter 33, LIGHTS).

2. Removal/Installation Left or Right Upper Aft Trim Panel (see Figure 201)

   A. Equipment Required - None.

   B. Remove Left or Right Upper Aft Trim Panel.

      (1) Remove two aft screws in top forward trim panel.

      (2) Remove escape rope door by actuating latch.

      (3) Remove trim panel attaching screws.

      (4) Remove trim panel by lowering aft end and sliding trim panel aft. At the same time, guide escape rope through opening in escape rope compartment.

   C. Install Left or Right Upper Aft Trim Panel.

      (1) Place trim panel in position with forward end under top forward trim panel and at the same time guide escape rope through opening in escape rope compartment.

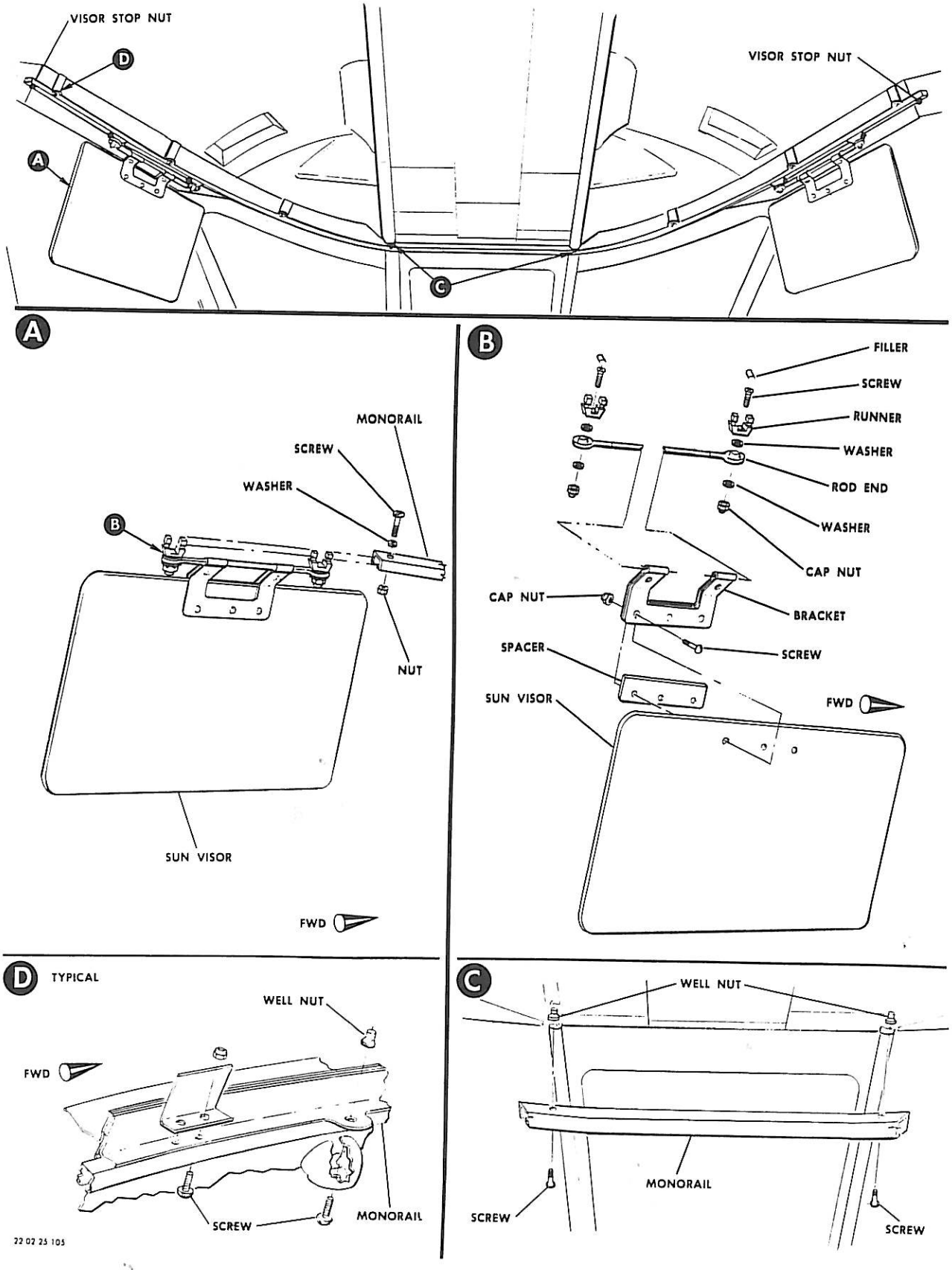
      (2) Install trim panel attaching screws.

      (3) Secure escape rope and install escape rope door.

(3) Install six covers and attaching screws.

(4) Slide runners onto monorail and install screw, washer and nut at both ends of rail.

(5) Install sun visors, if removed (refer to paragraph 1).


VISOR STOP NUT
D
VISOR STOP NUT
A
C
A
MONORAIL
SCREW
WASHER
B
NUT
SUN VISOR
FWD
B
FILLER
SCREW
RUNNER
WASHER
ROD END
WASHER
CAP NUT
CAP NUT
BRACKET
SCREW
SPACER
SUN VISOR
FWD
D TYPICAL
WELL NUT
FWD
SCREW
MONORAIL
22 02 25 105
C
WELL NUT
MONORAIL
SCREW
SCREW

SUN VISORS - MAINTENANCE PRACTICES

1. Removal/Installation Pilot's and Copilot's Sun Visor (see Figure 201)

   A. Equipment Required - None.

   B. Remove Sun Visor.

      (1) Remove cap nuts and washers securing rod ends to runners, and remove sun visor.

      (2) Remove five cap nuts and screws securing bracket to sun visor, and remove rod, bracket and spacer.

   C. Install Sun Visor.

      (1) Place rod in bracket, then position bracket and spacer on sun visor and secure with screws and cap nuts.

      (2) Attach rod ends to runners with washers and cap nuts.

2. Removal/Installation Sun Visor Runners and Monorail (see Figure 201)

   A. Equipment Required - None.

   B. Remove Sun Visor Runners and Monorail.

      (1) Remove sun visors (refer to paragraph 1).

         NOTE: It is not necessary to remove sun visors from runners if only monorail is to be replaced.

      (2) Remove nut, washer and screw from both ends of monorail, then slide runners off rail.

      (3) Remove screws securing six covers around monorail.

      (4) Remove two screws securing monorail above the center windshield.

      (5) Holding monorail, remove eight screws, washers and nuts securing rail to six brackets. Remove monorail.

   C. Install Sun Visor Runners and Monorail.

      (1) Position monorail on six brackets and install eight attaching screws, washers and nuts.

      (2) Install two screws with new rubber washers to secure monorail above center windshield.

SUN VISORS - TROUBLE SHOOTING

POSSIBLE CAUSE	ISOLATION PROCEDURE AND CORRECTION
1. SUN VISOR WILL NOT REMAIN IN UP (STOWED) POSITION	
A. Loose sun visor bracket cap nuts.	Check cap nuts for looseness. If loose, tighten nuts.
B. Sun visor bracket is worn where it contacts rod.	Check bracket for wear. If worn, replace bracket.
C. Sun visor rod is worn where it contacts bracket.	Check rod for wear. If worn, replace rod.
2. SUN VISOR CANNOT BE MOVED HORIZONTALLY	
A. Loose monorail attaching screws obstructing runner travel.	Check screws securing monorail to brackets for looseness. If loose, tighten screws.
B. Monorail tracks too close to each other.	Check distance between tracks. Repair or replace monorail, as required.

(3) Adjusting handle for full travel and freedom of movement.

(4) Adjustment control cable for kinks, security and general condition.

(5) Seat frame for cracks at welds.

(6) Seat for free swiveling action.

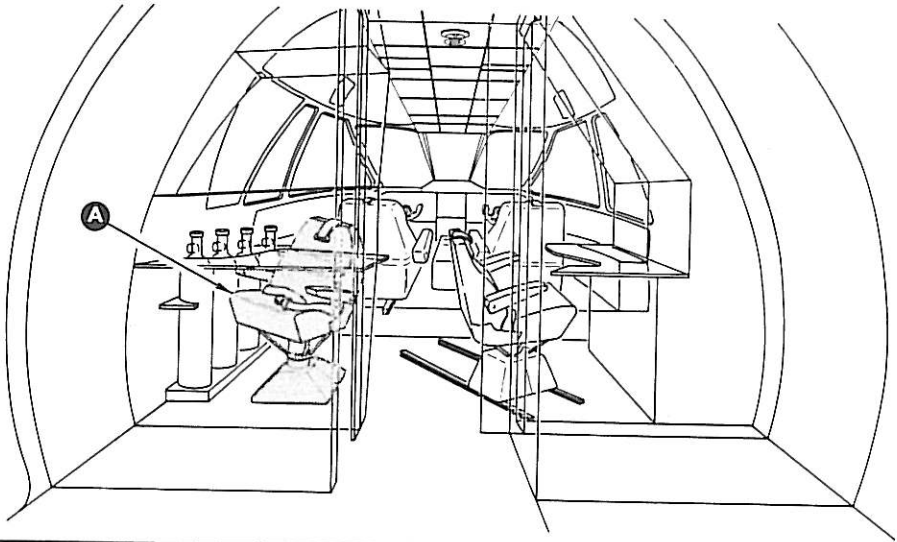
(7) Seat for security of attachment to floor.

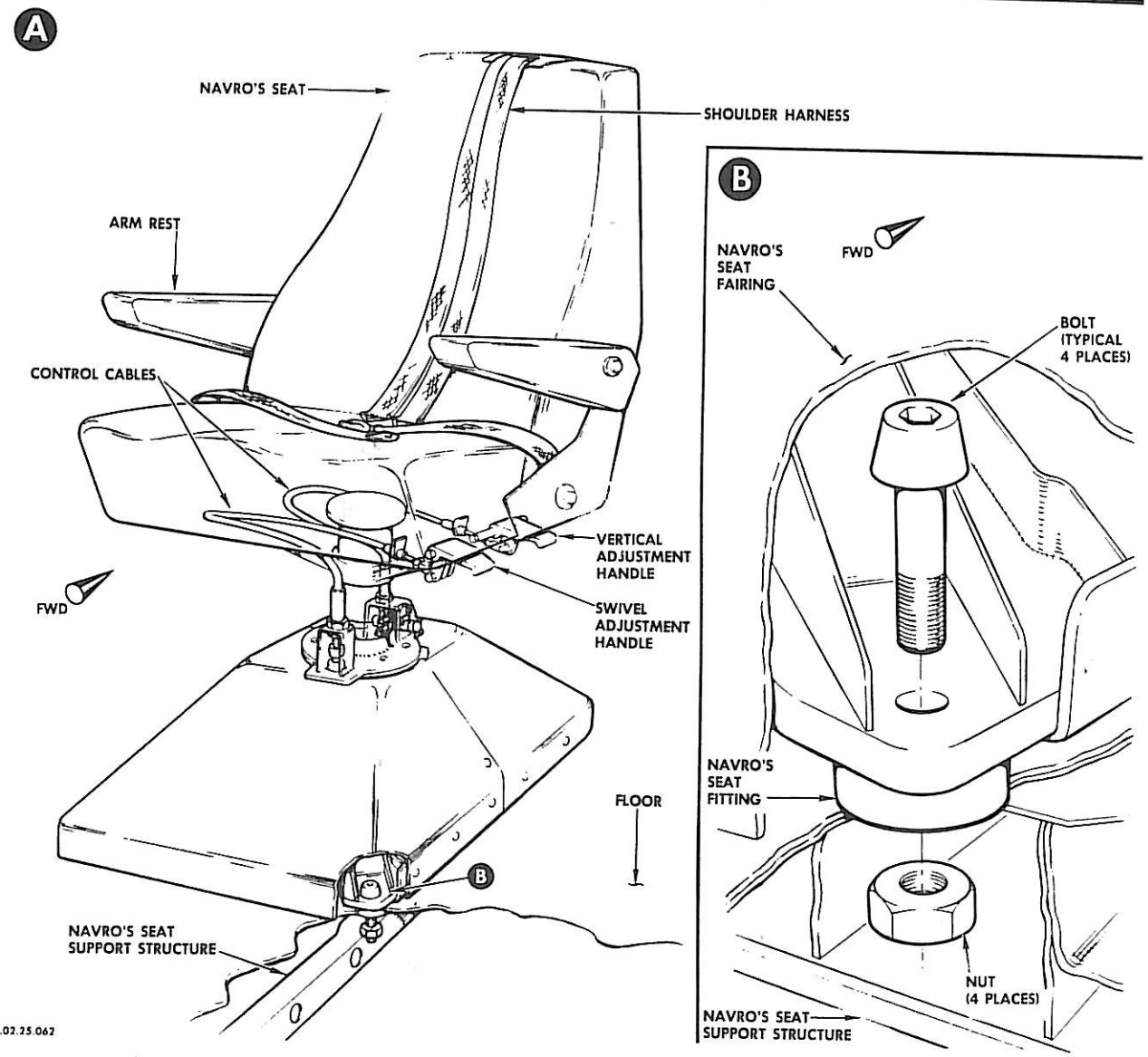
4. Cleaning/Painting Navro's Seat

A. Refer to Cleaning/Painting Pilots' Seats.

5. Approved Repairs Navro's Seat

A. Refer to Approved Repairs Pilots' Seats.





Navro's Seat Installation
Figure 201

NAVIGATOR/RADIO OPERATOR'S (NAVRO'S) SEAT - MAINTENANCE PRACTICES

1. Removal/Installation Navro's Seat (see Figure 201)

   A. Equipment Required - None.

   B. Remove Navro's Seat.

      NOTE: As the attaching bolts extend through the flight compartment floor, seat removal requires two men.

      (1) Remove cover around base of seat.

      (2) Remove four bolts and nuts attaching seat to floor.

      (3) Remove seat from airplane.

   C. Install Navro's Seat.

      (1) Position seat to align with attaching points in floor.

      (2) Install bolts and nuts.

      (3) Install cover around base of seat.

      (4) Check seat for freedom of operation.

2. Adjustment/Test Navro's Seat

   A. The following tests should be performed after seat installation or seat repair.

      (1) Press armrest vertical adjustment button and move armrest through full range of travel. Armrest should move freely and hold firmly in each locked position.

      (2) Lift vertical adjustment handle and raise seat to highest position. When handle is released, seat should hold firmly in top position. Check that seat locks securely at each locking position.

      (3) Lock all parts of belt assembly in lock-buckle. Lock should hold belt and straps securely. Release lock-buckle and shoulder straps; crotch straps and seat belt should release easily.

3. Inspection/Check Navro's Seat

   A. Check Navro's Seat:

      (1) Seat for freedom of movement in up and down directions.

      (2) Upholstery for cleanliness, tears and general condition.

NAVIGATOR/RADIO OPERATOR'S (NAVRO'S) SEAT - TROUBLE SHOOTING

	POSSIBLE CAUSE	ISOLATION PROCEDURE AND CORRECTION
1.	VERTICAL ADJUSTMENT CONTROL HANDLE DOES NOT OPERATE INDEX PIN	
A.	Loose connections in control handle assembly.	Check all connections; tighten as necessary.
B.	Cable assembly worn or damaged.	Check condition of cable; replace if necessary.
C.	Index pin spring worn or damaged.	Check installation and condition of spring; replace if necessary.

NOTE: For additional trouble shooting procedures, refer to FLIGHT ENGINEER'S SEAT - TROUBLE SHOOTING.

(7) Lift swivel adjustment control handle and turn seat. Seat should turn freely in each direction and controls should operate easily.

(8) Check that seat locks securely in each possible swivel position.

(9) Pull shoulder straps. Straps should pull freely and inertia reel should rewind without binding.

(10) Pull shoulder harness out approximately half way, then pull sharply on harness. Inertia reel should lock and prevent further forward movement.

(11) Lock all parts of seat belt assembly in lock-buckle. Lock-buckle should hold securely. Release lock-buckle and all parts should release easily.

3. Inspection/Check Flight Engineer's Seat

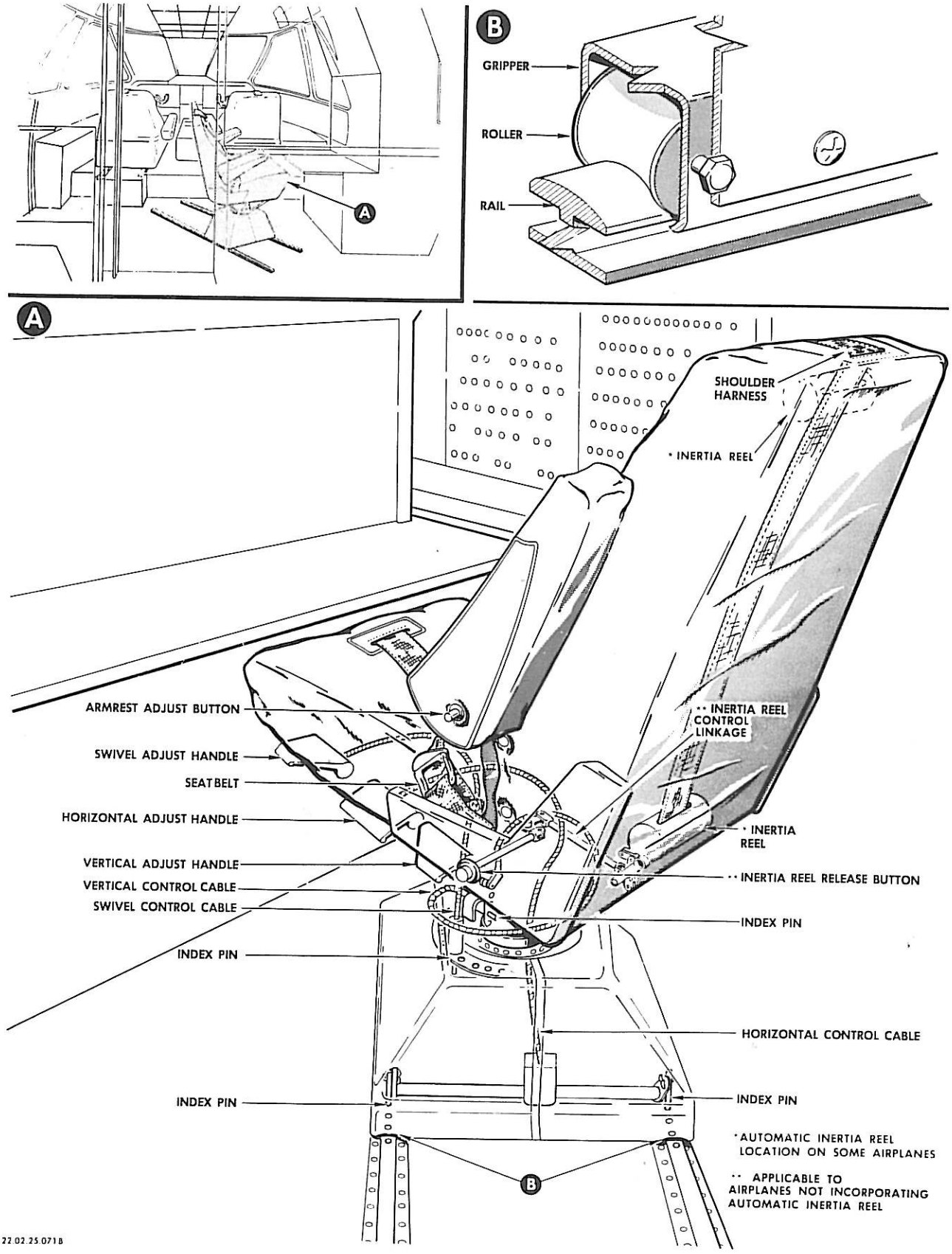
A. Refer to Inspection/Check Pilots' Seats.

4. Cleaning/Painting Flight Engineer's Seat

A. Refer to Cleaning/Painting Pilots' Seats.

5. Approved Repairs Flight Engineer's Seat

A. Refer to Approved Repairs Pilots' Seats.



Flight Engineer's Seat Installation
Figure 201

FLIGHT ENGINEER'S SEAT - MAINTENANCE PRACTICES

1. Removal/Installation Flight Engineer's Seat (see Figure 201)

   A. Remove Flight Engineer's Seat.

      (1) Remove screws in shroud and remove shroud covering seat base.

      (2) Remove bolts attaching seat to grippers (seat to track retaining brackets).

      (3) Lift seat from grippers leaving grippers on tracks.

      NOTE: Grippers can be removed from ends of tracks.

   B. Install Flight Engineer's Seat.

      (1) Position seat on the four grippers on the seat track.

      (2) Install bolts attaching seat to grippers.

      (3) Check operation of seat adjustments (refer to Adjustment/Test Flight Engineer's Seat).

      (4) Position seat base shroud and install attaching screws.

2. Adjustment/Test Flight Engineer's Seat

   A. The following tests should be performed after seat installation or seat repair.

      (1) Press vertical adjustment button and move armrest through full range of travel. Armrest should move freely and hold firmly in each locked position.

      (2) Rotate armrest to vertical position. Armrest should turn without binding.

      (3) Lift vertical adjustment control handle and raise seat to highest point. When control handle is released, seat should hold firmly in top position. Controls and seat should move freely.

      (4) Check seat in each vertical position. Seat should hold firmly in all positions.

      (5) Lift horizontal adjustment control handle. Move seat forward and back on seat track. Seat should move freely and controls should operate easily.

      (6) Check that seat locks firmly in each possible horizontal position.

POSSIBLE CAUSE	ISOLATION PROCEDURE AND CORRECTION
13. INERTIA REEL DOES NOT HOLD AGAINST PULL ON STRAPS	
A. Inertia reel is faulty.	Replace inertia reel.
14. BUCKLE-LOCK DOES NOT HOLD BELT PARTS FIRMLY	
A. Buckle-lock is faulty.	Replace buckle-lock.
15. BUCKLE-LOCK DOES NOT RELEASE BELT PARTS	
A. Buckle-lock is faulty.	Replace buckle-lock.

POSSIBLE CAUSE	ISOLATION PROCEDURE AND CORRECTION
7. ARMREST DOES NOT HOLD IN ANGULAR POSITION (CONT)	
B. Armrest spring is worn.	Check for worn spring; replace if necessary.
8. SEAT ADJUSTMENT HANDLES BIND	
A. Torque lever tube is worn.	Check tube for wear; replace if necessary. Also check bushings in tube mount brackets; replace if worn.
B. Spring is binding.	Free spring and check for wear. Replace spring if worn.
9. SEAT ADJUSTMENT SYSTEMS BINDING	
A. Components worn or misaligned.	Check clevises, bellcranks, straps, pins and attaching parts for wear or misalignment. If parts are worn, replace. Realign if misaligned.
10. SEAT ADJUSTMENT CONTROL CABLES BIND	
A. Cable kinked or damaged.	Check cable for kinks or damage. Replace cable if damaged.
11. SEAT DOES NOT HOLD FIRMLY IN ADJUSTED POSITION	
A. Index pin or track lock pin is worn.	Check pin for wear; replace if necessary.
B. Index pin or track lock spring is weak.	Check spring and replace if necessary.
12. SEAT DOES NOT MOVE FREELY ON TRACK	
A. Gripper assemblies are worn.	Check grippers for wear; replace if necessary.
B. Track lock pin does not retract fully.	Check for weak springs; replace if necessary.
C. Rollers are not adjusted to track.	Check to see if rollers are seated on track. If not, adjust rollers to track by turning roller attaching bolt to raise or lower roller.

FLIGHT ENGINEER'S SEAT - TROUBLE SHOOTING

POSSIBLE CAUSE	ISOLATION PROCEDURE AND CORRECTION
1. ARMREST WILL NOT TURN TO VERTICAL POSITION OR WILL NOT HOLD ON ARMREST SPINDLE	
A. Hinge in bracket assembly is not in place.	Press armrest firmly on seat or shorten hinge.
2. ARMREST WILL NOT HOLD FIRMLY IN UPPER POSITIONS	
A. Armrest index pin is worn.	Check index pin for wear; replace if worn.
B. Index holes in armrest spindle guide are worn.	Check holes for wear; replace guide if worn.
C. Index pin spring is worn.	Check to see that spring holds pin in place; replace spring if worn.
3. ARMREST IS LOOSE AND WOBBLES	
A. Attaching bolts are loose.	Check bolts for tightness; tighten if necessary.
B. Armrest assembly parts are worn.	Remove armrest from seat and check for worn parts. Replace worn parts or install new armrest.
4. ARMREST IS FROZEN	
A. Armrest guide and bracket not seated properly.	Visually check for correct seating of guide and bracket. Loosen attaching screw and reseat guide and bracket.
B. Guide misaligned or twisted.	Check guide for misalignment or twisting; replace if necessary.
C. Mounting tubes for bracket and guide misaligned.	Check mounting tubes for alignment. Realign if not aligned.
5. ARMREST ASSEMBLY DOES NOT ADJUST ANGULARLY	
A. Block binds in guide channel of shell assembly.	Check installation of eye bolt and nut to block. Eye bolt should be perpendicular. Check for worn block; replace if necessary.
6. ARMREST DOES NOT HOLD IN ANGULAR POSITION	
A. Armrest spring not installed properly.	Check for correct installation of armrest spring.

4. Cleaning/Painting Pilots' Seats

A. Equipment Required.

(1) Clean cloth.

(2) Aliphatic naphtha or equivalent.

B. Clean Pilots' Seats.

(1) Clean machined surfaces of seat assembly with cloth dampened with aliphatic naphtha.

WARNING: ALIPHATIC NAPHTHA IS FLAMMABLE. PROVIDE ADEQUATE VENTILATION AND FOLLOW APPLICABLE SAFETY PRECAUTIONS.

(2) Clean fairing assemblies, arm rests, pocket and painted surfaces with water moistened cloth.

(3) To clean belts, refer to Cleaning/Painting Seat Belts and Shoulder Harness.

(4) To clean seat upholstery, refer to Cleaning/Painting Crew and Passenger Seat Upholstery.

5. Approved Repairs Pilots' Seats

A. Seat components when damaged or worn should be replaced with a serviceable like item.

B. Use standard shop practice for minor repair of sheet metal and/or riveted places.

(5) Lift seat horizontal adjustment handle and roll seat full travel fore and aft several times; seat should roll smoothly without binding.

(6) Lift seat horizontal adjustment handle and roll seat to alternate adjustment positions. Insure that seat locks securely in place when handle is released.

(7) Lift seat vertical adjustment handle; adjust seat alternately to upper and lower positions. Seat should move freely through full travel, then lock securely when handle is released.

(8) Lift seat vertical adjustment handle and adjust seat to each adjustment detent; seat should lock securely at each position when handle is released.

(9) Pull shoulder harness out approximately half way, then pull sharply on harness; inertia reel should lock and prevent further forward movement.

(10) Take position in pilot's seat, lock lap belt, crotch strap, shoulder harness and adjust all straps. Twist safety harness buckle release and all restraining harness should release immediately.

3. Inspection/Check Pilots' Seats

A. Check Pilots' Seats:

(1) Fairing assemblies for chips, scratches, cracks or other signs of wear.

(2) Control linkage for wear, clevises for elongated holes and safeties. Check all adjustment controls for ease of operation and general condition.

(3) Index pins for wear.

(4) Upholstery for wear and damage.

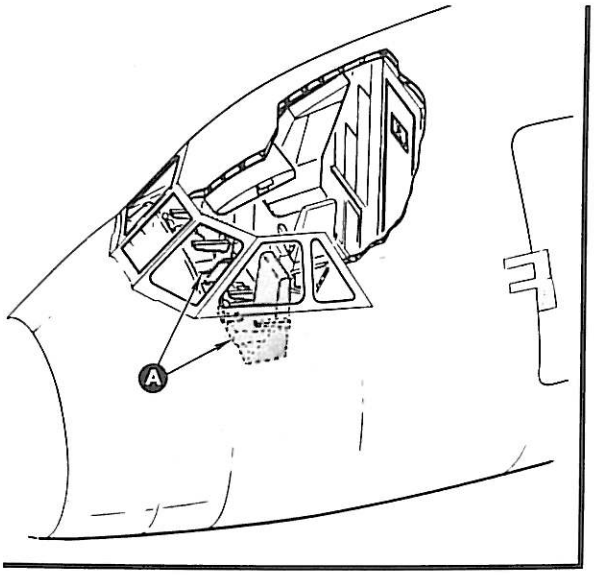
(5) Seat adjustment control handles for wear or damage.

(6) Inertia reel and shoulder harness for proper operation. Check shoulder straps for wear at attaching points, frayed edges and breaks in fabric.

(7) Springs for signs of fatigue or wear.

(8) Gripper assemblies for wear.

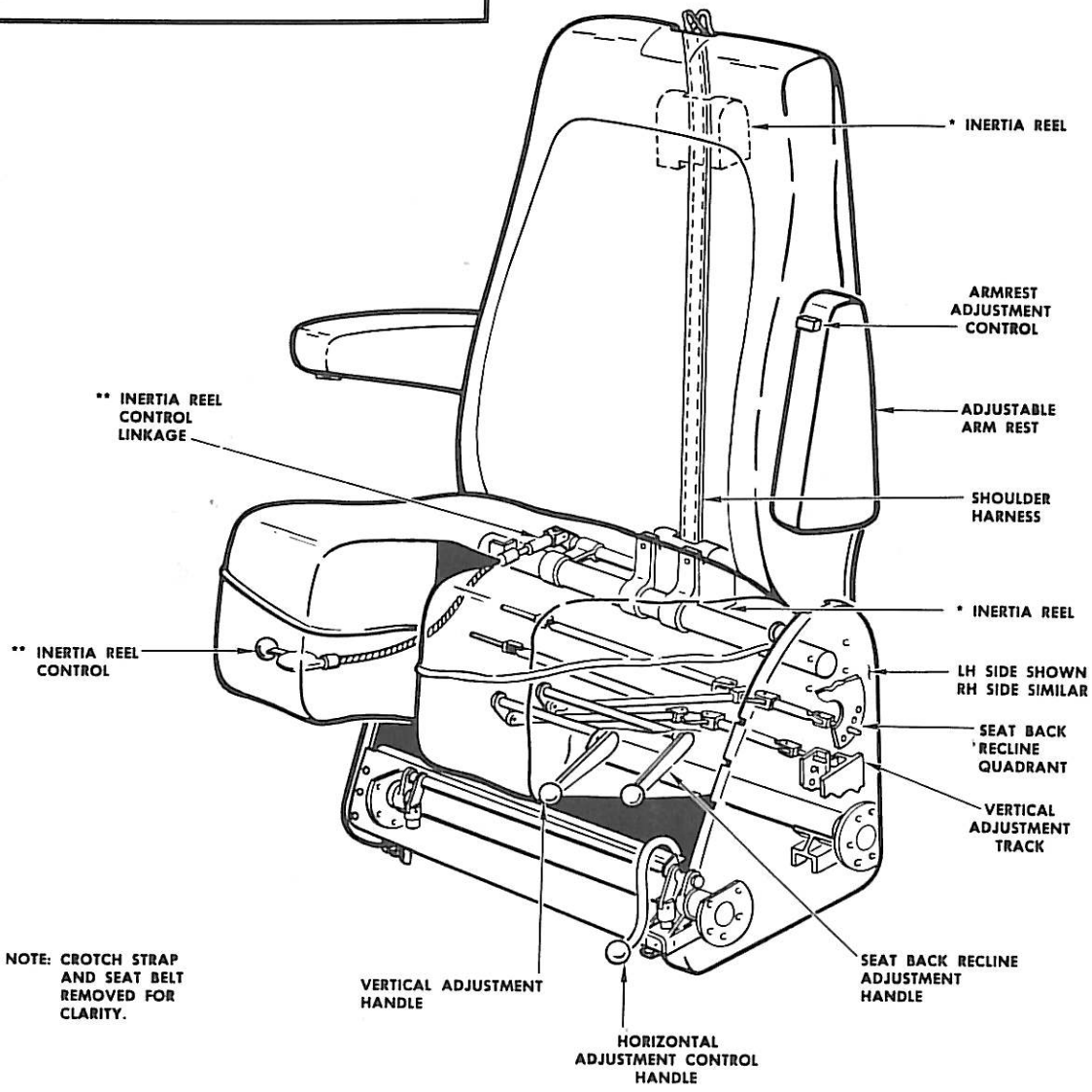
(9) Rollers in gripper assemblies for wear.



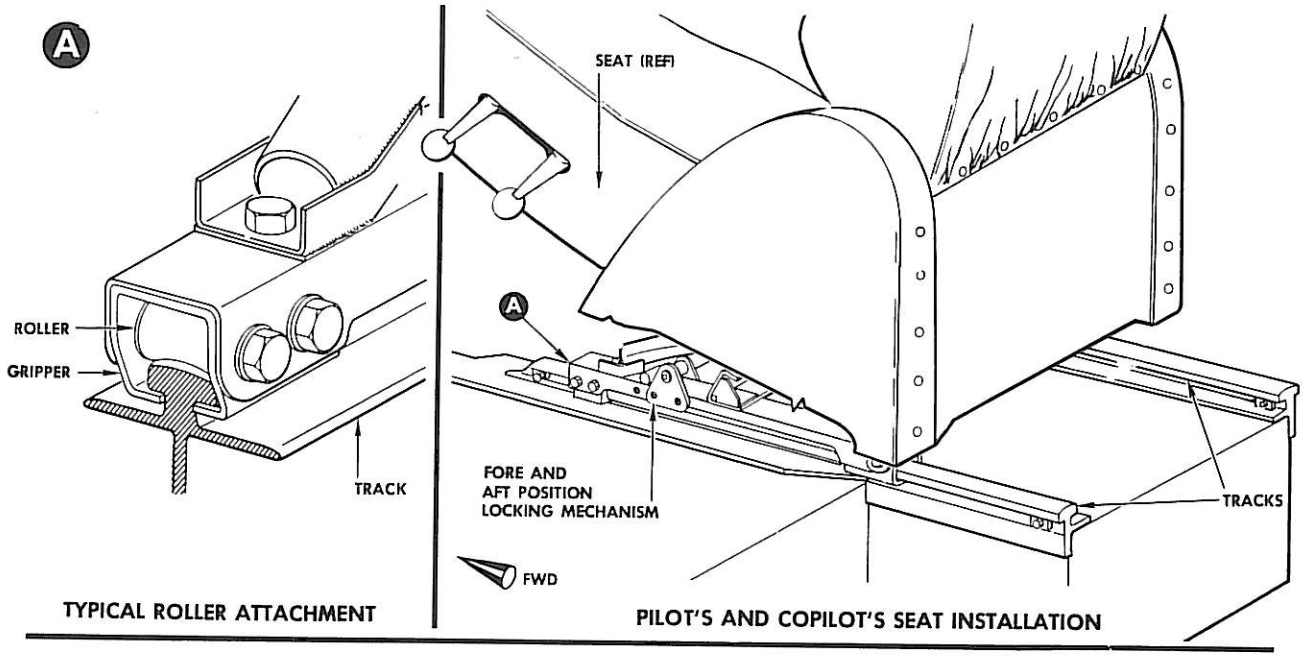
* LOCATION OF INERTIA REEL ON SOME AIRPLANES

** APPLICABLE TO AIRPLANES WITHOUT AUTOMATIC INERTIA REEL

A

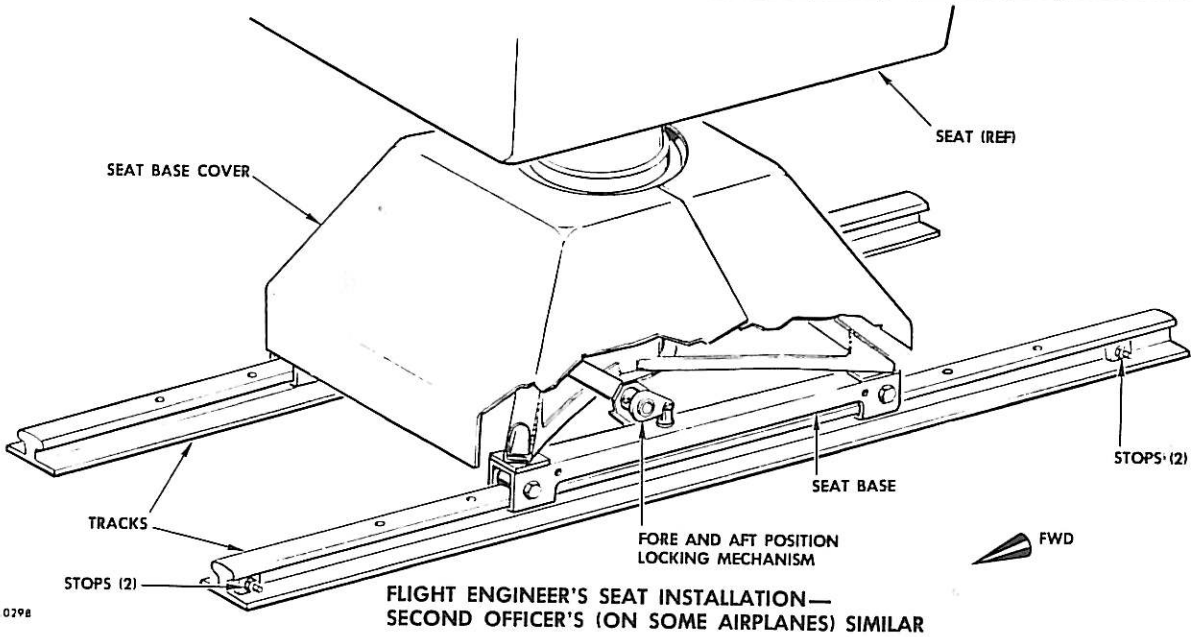


22.02.25.291



TYPICAL ROLLER ATTACHMENT

PILOT'S AND COPILOT'S SEAT INSTALLATION



30.30.25.0298

FLIGHT ENGINEER'S SEAT INSTALLATION—
SECOND OFFICER'S (ON SOME AIRPLANES) SIMILAR

PILOTS' SEATS - MAINTENANCE PRACTICES

1. Removal/Installation Pilot's and Copilot's Seats (see Figures 201 and 202)

   A. Remove Pilot's or Copilot's Seat.

      (1) Lift seat horizontal adjustment lever and roll seat to full aft position; remove seat track forward stops.

      (2) Roll seat forward until grippers clear the forward ends of the seat tracks.

      (3) Remove the four screws and three bolts from the aft section of each seat track; remove seat track section.

      (4) Tilt seat aft to raise forward grippers above seat tracks, then slide seat aft until aft grippers clear seat track flanges.

      (5) Lift seat and remove from airplane.

   B. Install Pilot's or Copilot's Seat.

      (1) Position seat over seat tracks with forward grippers centered and contacting both tracks.

      (2) Slide seat forward until aft grippers and track rollers fully engage aft end of track flanges.

      (3) Reinstall aft section of seat tracks.

      (4) Lift seat horizontal adjustment lever, align forward grippers and rollers with seat tracks and roll seat to full aft position.

      (5) Reinstall forward seat track stops.

2. Adjustment/Test Pilots' Seats

   A. The following tests should be performed after seat installation or repair.

      (1) Pull arm rest adjustment handle and move arm rests through full range of travel; arm rests should move freely without binding.

      (2) Check arm rests for proper locking in each of the five locking positions and insure that adjustment handle returns to lock position when released.

      (3) Lift seat back recline adjustment handle and adjust seat to vertical position and release handle; seat should lock securely in position.

      (4) Lift seat back recline adjustment handle and adjust seat back to each of three recline positions. Insure that seat back locks securely in each position.

	POSSIBLE CAUSE	ISOLATION PROCEDURE AND CORRECTION
5.	INERTIA REEL FAILS TO LOCK	
	A. Inertia reel is faulty.	Replace inertia reel.
6.	BUCKLE-LOCK DOES NOT HOLD BELT PARTS FIRMLY	
	A. Buckle-lock is faulty.	Replace buckle-lock.
7.	BUCKLE-LOCK DOES NOT RELEASE BELT PARTS	
	A. Buckle-lock is faulty.	Replace buckle-lock.

PILOTS' SEATS - TROUBLE SHOOTING

POSSIBLE CAUSE	ISOLATION PROCEDURE AND CORRECTION
1. ARMREST WILL NOT LOCK IN ADJUSTED POSITION	
A. Armrest cam assembly worn.	Remove cover on lower side of armrest and check cam assembly for wear; replace armrest if cam is worn.
B. Cam assembly actuating mechanism binding.	Remove cover on lower side of armrest and check cam actuating mechanism for binding or damage. Lubricate mechanism with dry film lubricant (MolyKote M-88 or equivalent) or replace armrest.
C. Cam assembly return spring broken.	Remove cover on lower side of armrest and check for broken spring. Replace armrest if spring is broken.
2. SEAT ADJUSTMENT HANDLES BIND	
A. Lubrication required.	Check bearing surfaces for lack of lubrication. Lubricate with dry film lubricant (MolyKote M-88 or equivalent) by spray method and allow to air-dry thoroughly before reinstallation.
B. System components worn or damaged.	Check bell cranks, pins and shafts for wear or misalignment. Replace misaligned part or install new seat.
3. SEAT DOES NOT HOLD FIRMLY IN ADJUSTED POSITION	
A. Index pin worn.	Check index pins for wear; replace if necessary.
B. Seat track index pin holes elongated.	Check seat track holes for elongation; replace track if necessary.
C. Index pin return spring weak or broken.	Check spring and replace if necessary. Free length of spring is 3.00 inches.
4. SEAT DOES NOT MOVE FREELY ON TRACK (HORIZONTAL ADJUSTMENT)	
A. Gripper assemblies (seat-to-seat track retainers) are worn.	Check grippers for wear; replace if necessary.
B. Rollers in grippers are not properly adjusted to seat track.	Check to see if rollers are seated on track. If not, adjust rollers to track by turning roller attaching bolt to raise or lower roller.

place with double-faced tape. Scuff plates are installed under the rudder pedals, and tread plates protect the exposed edges of the pilots' platform. Refer to 25-1-6, Figure 201,for a layout of the flight compartment floor covering.

6. Miscellaneous Equipment

Following is a list of the miscellaneous equipment located in the flight compartment. All emergency equipment stowed in this area is described in section 25-6-0.

A. Ashtrays are located on the left console for the pilot; on the right console for the copilot; on the flight engineer's table; and on the partition just above the navro's table.

B. The pilots' check list is stowed on the inboard side of the right console.

C. The removable plastic air worthiness certificate and radio license holders are located on the forward side of the flight compartment door.

D. A pocket is provided on the back of each pilot seat for the stowage of the airplane flight manuals.

E. The stowage area for the pilot's and copilot's flight kits is located just inboard of the aft section of their respective consoles. The flight engineer's kit is stowed on the floor just forward of the circuit breaker panel.

F. A spare bulb and fuse holder is located at the right side of the flight compartment doorway just below the portable oxygen bottle.

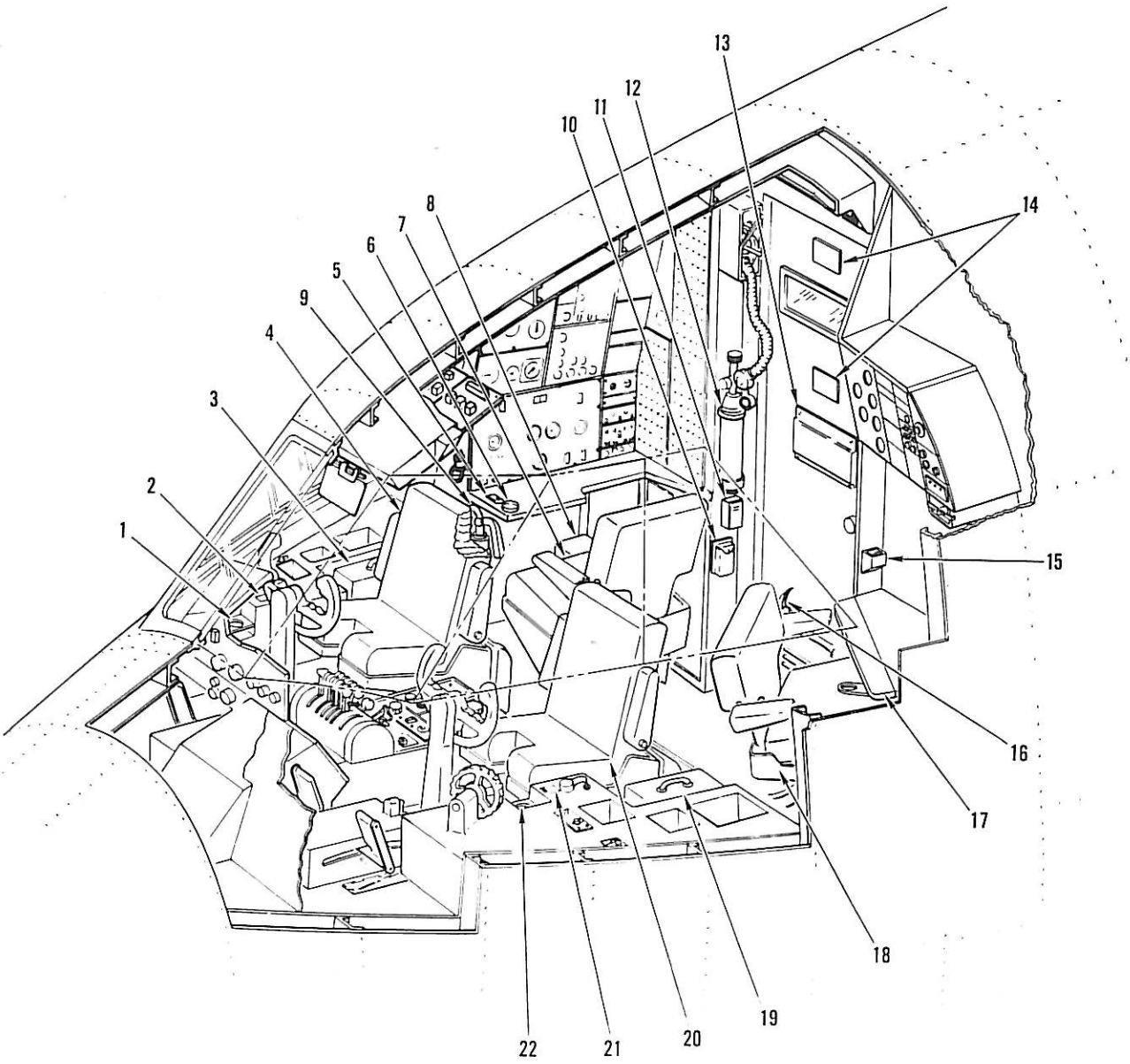
G. Cup holders are installed on the left and right consoles and on the under side of the flight engineer's and navro's table.

7. Sun Visors

Two transparent, grey-tinted, plastic sun visors are provided for pilot and copilot use. Each sun visor is attached to a rod by a bracket to allow for vertical movement of the visor. The rod ends are attached to runners mounted on an overhead monorail, which extends from the rear of the pilot's sliding window to the rear of the copilot's sliding window, to allow for horizontal movement of the visors.

8. Flight Compartment Curtain

A black-colored, fabric curtain is installed forward of the instrument panel and rudder pedals. The curtain is secured to the fuselage frame and floor beam at fuselage station 187.5. Access to the curtain is gained through the door located in the top of the nose landing gear wheel well.



1. COPILOT'S CUP HOLDER
2. COPILOT'S ASH TRAY
3. FLIGHT KIT
4. COPILOT'S SEAT
5. FLIGHT ENGINEER'S ASHTRAY
6. FLIGHT ENGINEER'S CUP HOLDER
7. FLIGHT ENGINEER'S SEAT
8. FLIGHT KIT
9. CO_2 FIRE EXTINGUISHER
10. LANDING GEAR DOWN LOCK SAFETY PIN STOWAGE
11. SPARE BULB STOWAGE
12. PORTABLE OXYGEN BOTTLE
13. RADIO LICENSE HOLDER
14. AIR WORTHINESS CERTIFICATE
15. NAVIGATOR/RADIO OPERATOR'S ASH TRAY
16. EMERGENCY FIRE AXE
17. NAVIGATOR/RADIO OPERATOR'S TABLE
18. NAVIGATOR/RADIO OPERATOR'S SEAT
19. FLIGHT KIT
20. PILOT'S SEAT
21. PILOT'S ASH TRAY
22. PILOT'S CUP HOLDER

30.30.25.030A

FLIGHT COMPARTMENT EQUIPMENT AND FURNISHINGS - DESCRIPTION AND OPERATION

1. General

The equipment in the flight compartment consists of such items as seats for the flight crew, cup holders, ashtrays, stowage provisions for required licenses and crew kits, and emergency escape ropes. The equipment is so arranged that it is readily accessible.

The trim panels in the flight compartment are made of Boltaron material and are preformed to the compartment contour. These panels may be lowered or removed for access to the area behind the panels by removing their attaching screws. Figure 1 shows the arrangement of the flight compartment and the location of its equipment.

2. Pilots' Seats

The pilot's and copilot's seats are mounted on the raised portion of the flight compartment floor on either side of the control pedestal. These seats are fully contoured and cushioned and incorporate crotch straps, shoulder harnesses, inertial reels, and safety belts. Both seats are completely interchangeable and are structurally designed to withstand a 9G forward load. Controls are provided on the pedestal side of each seat for a five-inch vertical adjustment and a seven-inch fore and aft adjustment. The seat armrests have a four-inch up and down adjustment and an angular adjustment of approximately seven degrees. Both seats are easily replaced. Refer to 25-1-1, Figure 201, for illustrations of the seat attachment points.

3. Flight Engineer's Seat

The flight engineer's seat is installed on a diagonal track which allows optional positioning at either his control panel or between and just aft of the pilots' positions. This optional positioning of the flight engineer's seat makes it possible to operate the airplane at certain times with a two-man crew. The seat rotates approximately 180 degrees and incorporates a vertical adjustment lever, a horizontal adjustment control lever, a safety belt, and a shoulder harness and inertia reel. Refer to 25-1-1, Figure 201, for illustrations of the seat installation details.

4. Navigator/Radio Operator's (Navro's) Seat

The navro's seat is located aft of the pilot's seat with the seat base fixed directly to the floor structure. It has the same contour and construction as the flight engineer's seat. The seat adjusts vertically and rotates approximately 180 degrees. A shoulder harness inertia reel, safety belt, and crotch strap are incorporated. Refer to 25-1-3, Figure 201, for seat installation details.

5. Floor Covering

The flight compartment floor is covered with Durug, a sponge-like vinyl material with a very durable upper surface. The floor covering is held in

(6) Allow mixture to cure a minimum of 24 hours at room temperature. Mixture will dry more rapidly with application of heat at temperature not to exceed 150 degrees (66 degrees C).

(7) Touch up area with matching lacquer. Refer to step C.(3).

(1) Clean area to be repaired by rubbing lightly with aliphatic naphtha or equivalent.

(2) Carefully cement fabric into its original position with Epon 828 or equivalent.

(3) Touch up with matching lacquer if necessary. This may be done with touch-up gun or by rubbing area with cheesecloth dipped in matching lacquer.

D. Repair of Small Punctures or Holes.

NOTE: This repair applies to holes 1/4-inch in diameter or less.

(1) Clean area to be repaired by rubbing lightly with aliphatic naphtha or equivalent.

(2) Prepare mixture of the following components:

(a) Epon 828 - 100 parts by weight.

(b) HN 951 - 10 parts by weight.

(c) Silica pellets (Cabosil M-5) - 5 parts be weight.

(3) Fill damanged area with above mixture to the level of the surrounding surface.

(4) Allow mixture to cure for a minimum of 24 hours at room temperature. Mixture will cure in three hours with application of heat at 150 degrees Fahrenheit (66 degrees C).

(5) Touch up area with matching lacquer. Refer to step C(3).

E. Repair Large Holes or Dents.

NOTE: This repair applies to damage where cutout of damaged portion will not exceed one inch.

(1) Route out damaged portion of spongex or honeycomb core trim panel.

(2) Prepare mixture as in step D(2).

(3) Cut vinyl fabric patch of matching material to fit cutout area.

(4) Fill damaged area with resin mix and fit patch into place.

(5) Place flat weight on repair with waxed paper between weight and repair.

(6) Edges of patch may be blended to surrounding area with mastic. Prepare mastic by placing a small amount of methyl ethyl ketone on matching piece of plastic and working up the plasticized surface with a knife blade. Apply mastic quickly with blade, adding methyl ethyl ketone if needed. Remove excess mastic at once.

(7) Paint repaired section as per paragraph C(2).

9. Approved Repairs Vinyl Covered Trim and Panels

A. General.

Most of the paneling and trim in the main cabin, lounge, entrance areas, and lavatories consists of Spongex or honeycomb core between layers of fiberglas fabric impregnated with a resin and covered with vinyl fabric on the visible surfaces.

Acoustical ceiling panels in the main cabin, lounge and aft entrance area consist of a perforated 1/4-inch thick aluminum honeycomb core, with facings of fiberglas fibric impregnated with an epoxy plastic resin, bonded to the aluminum core with an epoxy or equivalent resin adhesive. A perforated plastic trim fabric is attached to the edges of the panel and allowed to hang free over the flat surface of the panel.

Sidewall panels in the entrance areas and lavatories; ceiling panels in the forward entrance area and lavatories; hatracks, side ceiling panels, and wainscot panels in the main cabin area are made of Spongex sandwiched between layers of resin impregnated fiberglas fabric and covered with vinyl fabric on the visible surfaces.

Repairs listed here will be of a minor nature, such as small tears in the vinyl covering or small holes through the vinyl and fiberglas into the Spongex or honeycomb core.

B. Equipment Required.

(1) Aliphatic naphtha.

(2) Resin (Epon 828 or equivalent).

(3) Hardener (HN 951 or equivalent).

(4) Silica pellets (Cabosil M-5 or equivalent).

(5) Lacquer to match area being repaired.

C. Repair of Small Tears in Vinyl Fabric.

NOTE: This repair to be used when the fabric is damaged and the damaged portion of the fabric is considered serviceable. This repair does not apply to acoustical ceiling panels.

D. Repair of Small Holes.

Holes with a maximum diameter of 0.191-inch may be repaired as follows:

(1) Clean surface of area to be repaired (refer to Cleaning/Painting Compartment Trim and Panels).

(2) Prepare a mixture of the following materials.

NOTE: The mixture may be used as long as it is workable. Prepare only the amount that can be used during the pot life.

WARNING: WEAR RUBBER GLOVES WHEN MIXING OR APPLYING THESE MATERIALS AND AVOID BREATHING FUMES.

(a) Epon 828 - 100 parts by weight.

(b) HN 951 - 10 parts by weight or Shell Curing Agent T-1 - 25 to 30 parts by weight.

(c) Silica pellets (Cabosil M-5) - five percent minimum.

(3) Fill hole with mixture and allow to cure a minimum of 24 hours at room temperature. Mixture will cure in three hours when exposed to heat of 120 - 130 degrees F (49 - 55 degrees C).

(4) Sand area smooth with No. 140 grit wet-or-dry emery paper.

(5) Paint area, if necessary, in accordance with paragraph C(2).

E. Repair of Large Holes and Cracks.

Holes larger than 0.191-inch diameter and cracks may be repaired as follows:

(1) Trim crack or hole to a symmetrical shape.

(2) Sand area of Boltaron to be patched with No. 140 wet-or-dry emery paper.

(3) Cut corresponding shape from similar material of same color and thickness.

(4) Brush Epon 828 around edge of trimmed section and mating piece and press patch into place. Wipe off excess resin from face of repair at once.

(5) Cut No. 181 fiberglas fibric reinforcement and cement to reverse side with Epon 828 (fiberglas reinforcement to be approximately one and one-half inch larger in diameter than Boltaron patch). Use one layer of No. 181 fiberglas for material 0.032-inch thick or less and two layers of No. 181 fiberglas for material over 0.032-inch thick.

trim around the passenger seat legs, and other parts of the interior trim are Boltaron.

Visual as well as structural standards must be kept in mind when repair of Boltaron trim or panels is contemplated. Interior trim readily visible to passengers should have no major repairs. Panels or trim not normally under close passenger scrutiny may be repaired as necessary to improve overall quality. Successful repair of damaged plastic sections depends largely on careful workmanship.

Repairs listed in the following paragraphs are for minor tears, scratches or holes in interior trim manufactured from Boltaron.

B. Equipment Required.

(1) Methyl ethyl ketone.

(2) Resin (Epon 828 or equivalent).

(3) Accelerator (HN 951 or equivalent).

(4) Silica pellets (Cabosil M-5).

(5) Lacquer to match materials being repaired.

(6) No. 181 fiberglas material.

(7) Aliphatic Naphtha.

(8) Narrow camel's hair brush or glass stirring rod.

(9) Touch-up paint gun.

(10) No. 140 grit wet-or-dry emery paper.

C. Repair Scratches or Cuts.

(1) Scratches or cuts through the top layer are repaired by applying just enough methyl ethyl ketone along the line of the cut to plasticize the damaged material.

NOTE: Use a thin glass stirring rod or narrow camel's hair brush to apply the solvent. The cut or scratch is "healed" on evaporation of the solvent.

(2) Spray on carefully matched lacquer with touch-up gun, if necessary.

NOTE: Control luster of the paint to match original sheen by regulating distance of paint gun head from repair and by carefully controlling paint flow. Apply only the thinnest coat of lacquer necessary to renew the surface repaired.

(2) Remove light dust, lint and minor soil with clean dry cloth followed with a clean cloth dampened with hot water.

(3) Soils and smudges that are difficult to remove may be treated with mild soap suds and water or with an applicable product listed in Table I, Cleaning/Painting Airplane Interiors. Use soft bristled brush on "grained" finish. Rinse thoroughly with clean water and wipe dry with a clean cloth.

(4) Remove stains, spots or smudges caused by grease or oil, by lightly wiping with a cloth moistened with aliphatic naphtha or equivalent.

CAUTION: DO NOT SATURATE OR ALLOW EXCESS NAPHTHA TO DRY ON VINYL MATERIAL. STAINING MAY RESULT.

WARNING: ALIPHATIC NAPHTHA is FLAMMABLE. APPROPRIATE SAFETY PRECAUTIONS MUST BE FOLLOWED.

7. Cleaning/Painting Seat Belts and Shoulder Harness

A. Equipment Required.

(1) Small bristled brush.

(2) Orvus soap or equivalent.

(3) Container for soap and water mixture.

B. Cleaning Seat Belts and Shoulder Harness.

(1) Remove seat belts and shoulder harnesses from seats.

(2) Place flat on work table.

(3) Brush both sides of belt and harness with soap suds.

NOTE: Avoid wetting buckle or metal parts.

(4) Hang belt or harness in shaded place until dry.

(5) Install seat belts and shoulder harness on seats.

8. Approved Repairs Boltaron Trim and Panels

A. General.

Boltaron is a modified polystyrene-type plastic trim material used in various area throughout the interior of the aircraft. Ceiling and sidewall trim panels in the flight compartment are manufactured from Boltaron. Trim around the windows and windshield in the flight compartment consists of Spongex covered with Boltaron. Portions of the convenience pods, part of the trim around the stewardess seats, part of the

5. Cleaning/Painting Vinyl Carpet

A. Equipment Required.

(1) Vacuum cleaner.

(2) Stiff brush.

(3) Bucket.

(4) Mild soap.

(5) Aliphatic naphtha or equivalent.

B. Cleaning Vinyl Carpet.

(1) Vacuum carpet to remove all dirt and dust.

(2) Remove minor soil with clean cloth dampened with hot water.

(3) Soils and smudges that are difficult to remove may be treated with mild soap suds and water or with an applicable product listed in Table I, Cleaning/Painting Airplane Interiors. If mild soap and water is used, scrub with stiff brush. Rinse and wipe dry with a clean cloth.

(4) Remove stains, spots or smudges caused by grease or oil, by wiping lightly with a cloth moistened with aliphatic naphtha. Excess naphtha must not dry on vinyl material or staining may result.

WARNING: ALIPHATIC NAPHTHA IS FLAMMABLE AND APPROPRIATE SAFETY PRECAUTIONS MUST BE FOLLOWED.

6. Cleaning/Painting Trim Panels

A. Equipment Required.

(1) Clean rags.

(2) Vacuum cleaner.

(3) Bucket.

(4) Mild soap.

(5) Aliphatic naphtha or equivalent.

B. Cleaning Compartment Trim and Panels.

(1) Vacuum trim panels to remove all dirt and dust.

NOTE: Clean vacuum cleaner attachment before using.

3. Cleaning/Painting Crew and Passenger Seat Upholstery

A. Equipment Required.

(1) Vacuum cleaner.

(2) Broom.

B. Cleaning Upholstery.

(1) Vacuum upholstery to remove dirt, dust and soil.

CAUTION: TEST THE MATERIAL TO BE CLEANED BY FIRST APPLYING THE CLEANING AGENT TO OBSCURE AREA OF THE MATERIAL.

(2) Remove spots and stains (refer to Cleaning/Painting Airplane Interior).

CAUTION: DO NOT ALLOW CLEANING SOLVENT OR ANY PETROLEUM DERIVATIVE TO CONTACT FOAM UNDER UPHOLSTERY.

WARNING: PROVIDE ADEQUATE VENTILATION.

(3) If after thorough vacuuming and spotting, upholstery still has dirty appearance, clean with a rug shampoo as recommended by the shampoo manufacturer.

(4) Clean stewardess seat upholstery with mild soap and water. Do not dry clean.

NOTE: The upholstery on the main cabin, flight compartment, and lounge area seats may be removed for dry cleaning.

4. Cleaning/Painting Wool Carpeting

A. Equipment Required.

(1) Vacuum cleaner.

(2) Broom.

B. Cleaning Wool Carpeting.

(1) Vacuum carpet to remove dirt, dust and soil.

(2) Remove spots and stains (refer to Cleaning/Painting Airplane Interior).

WARNING: PROVIDE ADEQUATE VENTILATION.

(3) Shampoo rug per shampoo manufacturer's instructions. Use only the foam of the rug shampoo.

TABLE II (CONT.)

TYPE OF STAIN	TYPE OF CLEANERS	METHOD OF CLEANING
Liquor and wine	Water, cleaning solvent.	Sponge with very hot water; rub vigorously with a clean cloth. If any spot remains after area has dried, sponge with cleaning solvent.
Milk	Soap and Water.	Wash with soap and water. Rinse with cold water.
Nail polish	Amyl acetate.	Sponge with amyl acetate. Press a blotter firmly on the spot. Repeat process until stain is gone.
Shoe and rubber markings.	Water, cleaning solvent.	For white shoe dressings, vigorously brush spot. Usually this will be sufficient treatment to remove the dressing. If not, moisten spot with cold water and, after it has dried, repeat brushing operation. For rubber marks, and for shoe dressings, containing wax (such as black and tan dressings), rub with cleaning solvent until spot is removed.
Tar	Cleaning solvent.	Moisten spot with cleaning solvent, and remove as much of the tar as possible with a blunt tool. Follow this operation by rubbing with a clean cloth moistened in cleaning solvent.
Tobacco	Mild soap and water.	Sponge with lukewarm soap suds. Brush vigorously, and flush with water.
Urine	Soap, water, household ammonia.	Sponge with lukewarm soapsuds. Rinse well by rubbing with a clean cloth wet in cold water. Then apply a solution of one part household ammonia to five parts of cold water. Rinse by rubbing with a clean wet cloth.
Water spots	Water, cleaning solvent.	Sponge entire panel or area with a clean cloth wet with cold water. Allow to dry, then sponge spot with a cloth moistened with cleaning solvent.

TABLE II (CONT.)

TYPE OF STAIN	TYPE OF CLEANERS	METHOD OF CLEANING
		Iron Rust Soap - rub soap into stain with the fingers. Let stand approximately one minute and wipe with dry cloth. Repeat process until wiping cloth no longer shows stain. Then rinse by rubbing spot with cloth moistened in cold water. Ink Eradicator Solution No. 1 - Apply No. 1 solution to spot with an eyedropper; then blot with blotting paper. Repeat process until a clean portion of blotting paper shows no stain. Then rinse by rubbing with a clean cloth moistened with cold water. CAUTION: SOLUTION NO. 2 WILL CHANGE COLOR OF FABRIC. Oxalic Acid - Use a saturated solution of oxalic acid as outlined in the preceding paragraph. Soldium Fluoride Solution - Use 2% solution of sodium acid fluoride (sodium bifluoride). Follow procedure outlined for ink eradicator.
Iron rust	Soap and water and same type cleaners used for ink.	Briskly rub spot with a cloth saturated in warm soapsuds. Rinse by rubbing with a cloth wet with cold water. After area has dried, treat any remaining stain as if it were an ink spot.
Lipstick	Cleaning solvent.	The composition of different brands of lipsticks varies; therefore, some lipstick stains may be more easily removed than others. Apply cleaning solvent to the stain with a clean cloth. Immediately press a blotter on the spot. Repeat procedure until blotter no longer shows stain.

TABLE II (CONT.)

TYPE OF STAIN	TYPE OF CLEANERS	METHOD OF CLEANING
Chewing gum	Cleaning solvent.	Moisten gum with cleaning solvent and work off fabric with a blunt tool while area is still moist.
Chocolate	Water, cleaning solvent.	Remove stain by rubbing with a cloth wet with lukewarm water. After area has dried, sponge with a cloth moistened with cleaning solvent.
Coffee	Soap, water.	Sponge with soap and water, and rinse with clean water.
Fruit	Water, cleaning	Practically all fruit stains can be removed with hot water. Sponge spot and scrape off all excess pulp. Then rub spot vigorously with a cloth wet with hot water. If trace of spot remains after area has dried, sponge spot with cleaning solvent. Soap and water will set the stain.
Grease and oil	Cleaning solvent.	Sponge with cleaning solvent. Use clean cloth to rub stains. Several cloths may be necessary.
Ice Cream	Water, cleaning solvent.	Sponge with hot water, and rub vigorously with a cloth dampened in hot water. If stain persists, rub with a cloth dampened in warm soapsuds. Follow with rinsing of cold water. After area has dried, remove any remaining traces of stain with cleaning solvent.
Ink	Iron rust soap and water or ink eradicator solution No. 1 or oxalic acid or sodium fluoride solution.	The composition of writing inks varies; therefore, it is impossible to find agents that are equally effective in removing all ink spots. The following methods are listed according to their relative efficiency.

TABLE II (CONT.)

TYPE OF STAIN	TYPE OF CLEANERS	METHOD OF CLEANING
Battery Acid	Household ammonia, water.	If battery acid is allowed to dry, a hole will probably form in the material. The spot should be treated as soon as possible after the acid has been spilled. Saturate the spot with a dilute solution of household ammonia by means of a brush or cloth. Permit ammonia water to remain on spot about one minute so that it will have time to neutralize the acid. Then thoroughly rinse or sponge the spot with cold water.
Blood	Water, household ammonia, corn starch.	Rub stain with a clean cloth saturated with cold water, until no more of the stain will come out. If this treatment does not remove all of the stain, brush area with a solution of household ammonia and water. Allow to remain for one minute; then rub with a clean wet cloth. If stain remains after use of water and ammonia, apply a thick paste of corn starch and cold water. Allow paste to dry; then pick off dried portion, and brush surface to remove starch particles. For stubborn stains, several applications of starch paste may be necessary. CAUTION: DO NOT USE HOT WATER OR SOAP AND WATER ON BLOOD STAINS BECAUSE THEIR USE MAY SET THE STAINS.
Candy	Water, cleaning	Candy stains, other than candy containing chocolate, can be removed by rubbing with a cloth wet with hot water. If stain remains after spot has dried, sponge with cleaning solvent. Candy stains resulting from cream and fruit-filled chocolates (but not chocolate) can be removed by rubbing with a cloth soaked in lukewarm soapsuds, together with scraping with a blunt tool, while wet.

TABLE I (CONT.)

PRODUCT	MANUFACTURER	USAGE
LEATHER AND VINYL FABRICS		
Aliphatic Naphtha	Commercial	For cleaning oil and grease from leather and vinyl surfaces. Flammable. Use with proper precautions against fire.
Saddle Soap	Commercial	For cleaning and refurbishing leather.
Soap and Water	Commercial	For cleaning vinyl fabrics.
Vitol	Turco Products Co.	For cleaning vinyl coated fabrics (Boltaron or Royalite) and carpeting, leather, and painted surfaces. Apply full strength or dilute with water.
Surfa-Saver	Fischer Industries Inc.	
Ke-Clean	Kalite	For cleaning painted surfaces, leather, and vinyl. Do not use on "napped" fabrics.

C. Cleaning Procedures.

Table II lists the most common stains in alphabetical order and the method of cleaning each.

TABLE II

TYPE OF STAIN	TYPE OF CLEANERS	METHOD OF CLEANING
Airsickness	Water, soap, cleaning solvent.	Scrape off as much as possible with a dull tool. Then sponge with a clean cloth, moistened with cold water. Wash lightly with soap, using a clean cloth and lukewarm water. Rub with another clean cloth dipped in cold water. If any sign of spot remains after area has dried, rub with a cloth moistened with cleaning solvent. Lightly spray with deodorant.

B. Cleaning Materials.

Use these products in strict compliance with manufacturers' directions.

TABLE I

PRODUCT	MANUFACTURER	USAGE
METAL SURFACES		
Aliphatic Naphtha	Commercial	For cleaning stainless steel and satin finish aluminum. Flammable. Use with proper precautions against fire.
Aluminum Wool	Commercial	For removing stains from metal surfaces.
Turco 1497	Turco Products Co.	For cleaning stainless steel and satin finish aluminum.
RUGS AND UPHOLSTERY		
Mystic Foam	Mystic Foam Corp.	For cleaning rugs and upholstery. Use only foam.
Rug Shampoo	Turco Products Co.	For shampooing rugs and upholstery. Use only the foam.
Orvus Paste	Merchants Chemical Co.	For shampooing rugs. Use only the foam.
Foam Cleaner	E.I. du Pont de Nemours & Co.(Inc.)	For shampooing upholstery.
Perchlorethylene	Dow Chemical Co.	For removing spots. Toxic. Use with adequate ventilation and with care to avoid skin burns.
Turco-Solv	Turco Products	For removing all types of oil spots and stains. Requires adequate ventilation and precautions against fire.
Pro-Fesh	Pro-Fesh Products	For removing all types of oil spots and stains. Requires adequate ventilation and precautions against fire.
Du Pont Clean	E.I. du Pont de Nemours & Co.(Inc.)	For removing oil spots. Requires adequate ventilation.

(f) Fuselage doors between station 375 and 1488.

Location	Number of Layers	Type Tape
Main entrance door aft	4	No. 428 Type "C"
Service door forward	1	No. 428 Type "C"
Service door aft	4	No. 428 Type "C"
Cargo doors	1	No. 428 Type "B"
Emergency exits	1	No. 428 Type "C"

2. Cleaning/Painting Airplane Interior

A. General.

Cleanliness and general appearance of the equipment and interior of the airplane are of utmost importance for promotion of good will and a feeling of security by the airline passengers. In order to maintain cleanliness, all spillage and spots should be removed as soon as possible. It is important to remove all stains and spots before cleaning interior fabrics, because the wrong solvent on a spot may chemically set the stain so that it cannot be removed, or the solvent may injure the fabric. Apply the cleaning agent with a clean soft cloth and avoid spreading stains by working from the outer edges toward the center.

Stains can be divided into two classes: those that are "built up" on the surface (such as nail polish, blood and food) and those that are absorbed (such as penetrating liquids). Most food stains, which are both "built up" and absorbed, leave a dark color on the surface but turn white when they are scratched.

Extreme caution must be exercised in the use of cleaning solvents due to their toxic effect. Adequate ventilation must be provided during cleaning operations employing cleaning solvents. The use of carbon tetrachloride is not recommended in any cleaning operation because of its cumulative toxic effects. Table I contains some suggested products, their manufacturers, and their usage. Table II lists the common stains, type of cleaners to be used, and method of cleaning.

(6) Fuselage doors between station 375 and station 1488 must have sound-deadening tape on all visible surfaces of twelve square inches or larger. Tape must be 0.25-inch maximum distance from structure, where webbing permits.

(7) Sound-deadening tape is installed in the following locations and thicknesses.

(a) Floor level to ceiling panel level on inner surface of fuselage skin.

Stations	Number of Layers	Type Tape
375 to 679	1	No. 428 Type "C"
679 to 964	1	No. 428 Type "C"
964 to 1002	1	No. 428 Type "C"
1002 to 1097	1	No. 428 Type "C"
1097 to 1173	2	No. 428 Type "C"
1173 to 1439	3	No. 428 Type "C"
1439 to 1488	2	No. 428 Type "C"

(b) Above ceiling panel level on inner surface of fuselage skin.

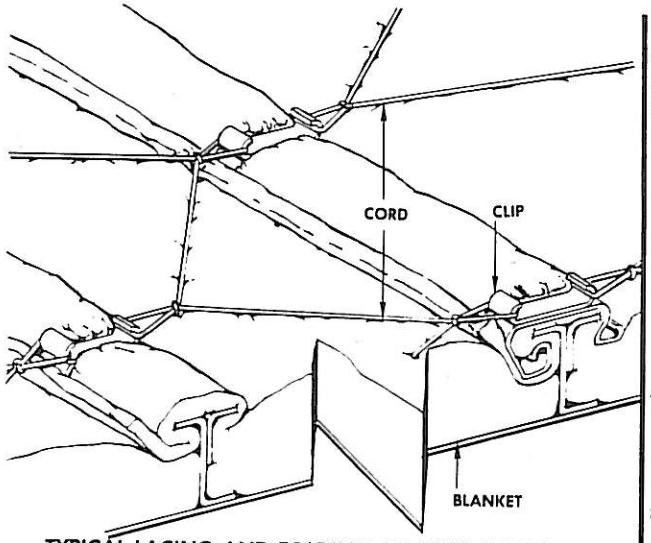
Stations	Number of Layers	Type Tape
375 to 679	1	No. 428 Type "B"
679 to 964	1	No. 428 Type "B"
964 to 1002	1	No. 428 Type "C"
1002 to 1097	2	No. 428 Type "C"
1097 to 1173	3	No. 428 Type "C"
1173 to 1439	4	No. 428 Type "C"
1439 to 1488	2	No. 428 Type "C"

(c) Below floor level on inner surface of fuselage skin.

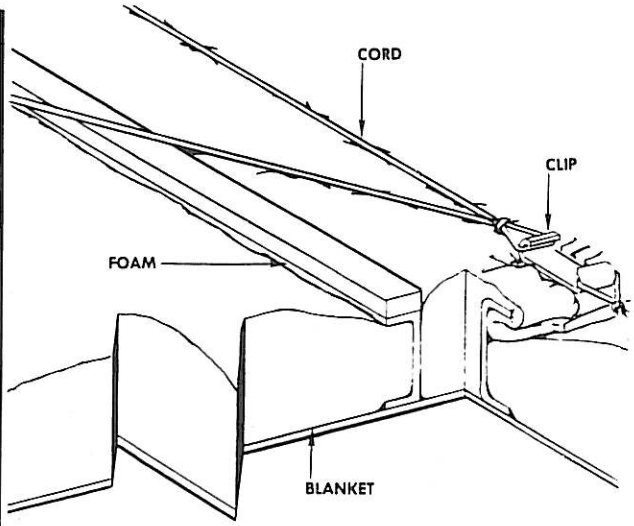
Stations	Number of Layers	Type Tape
964 to 1040	1	No. 428 Type "C"
1040 to 1344	1	No. 428 Type "B"
1344 to 1488	2	No. 428 Type "C"

(d) Pressure bulkhead at station 1488 has two layers of tape No. 428 Type "C" on the aft face of the bulkhead.

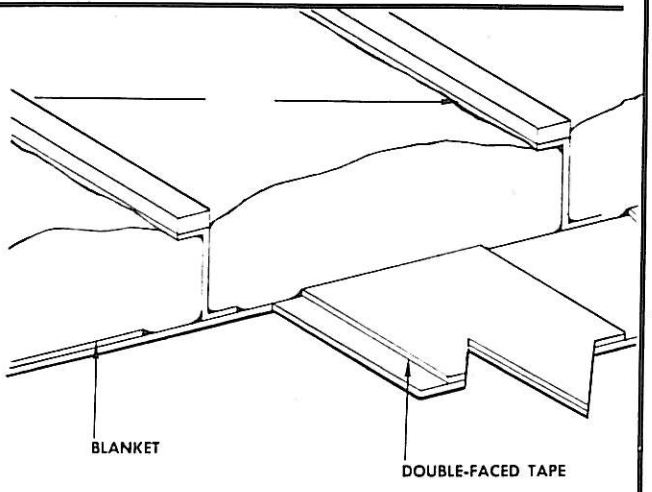
(e) Cargo Compartment bulkhead at station 926 has one layer of tape No. 428 Type "C" on aft side.



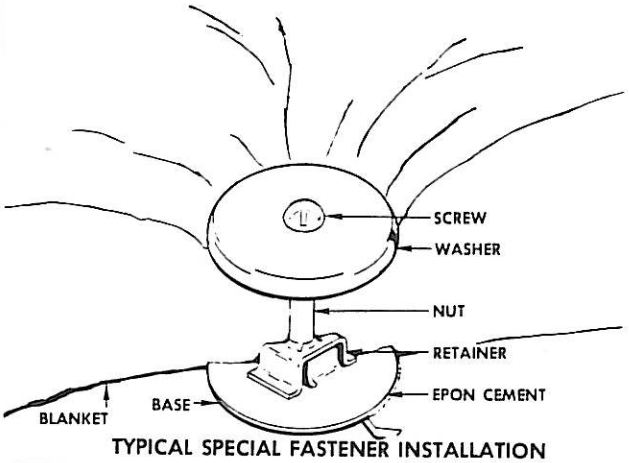
TYPICAL LACING AND FOLDING OF INSULATION



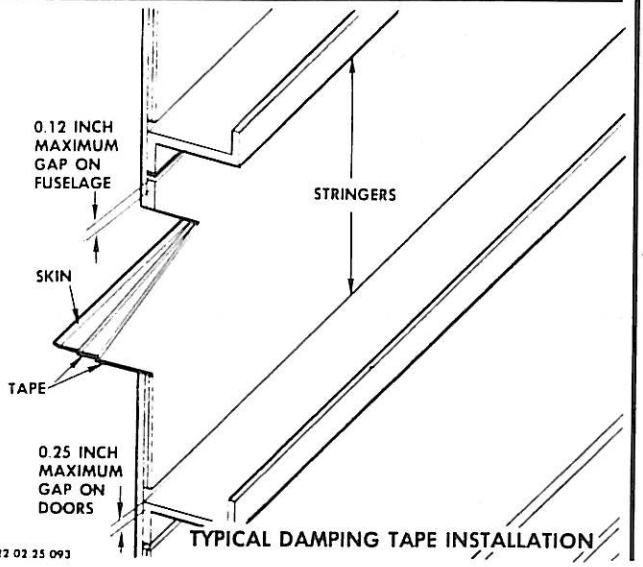
TYPICAL FOAM INSTALLATION



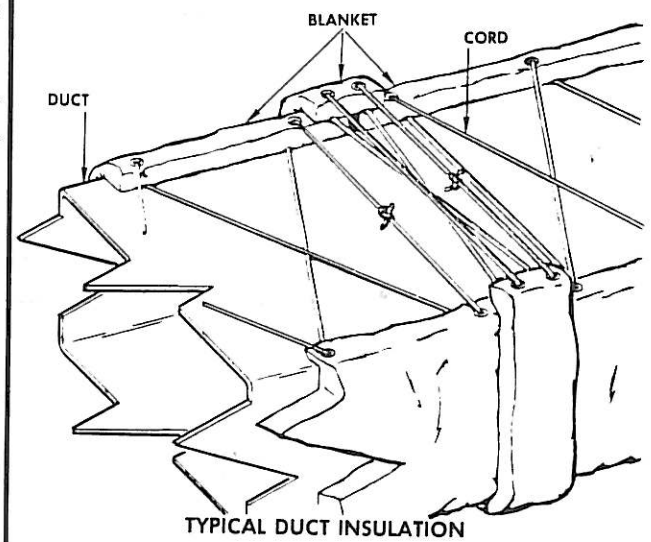
TYPICAL DOUBLE-FACED TAPE INSTALLATION



TYPICAL SPECIAL FASTENER INSTALLATION



TYPICAL DAMPING TAPE INSTALLATION



TYPICAL DUCT INSULATION

EQUIPMENT AND FURNISHINGS - MAINTENANCE PRACTICES

1. Removal/Installation Insulation (see Figure 201)

A. Equipment and Material Required.

(1) Cement EC 1357 (Minnesota Mining and Manufacturing) or equivalent.

(2) Tape No. 428 Type "B" (Minnesota Mining and Manufacturing) or equivalent.

(3) Tape No. 150 (Bauer and Black) or equivalent.

(4) Tape No. 428 Type "C" (Minnesota Mining and Manufacturing) or equivalent.

(5) Waxed nylon cord, MIL-T-713 Type 5, Comp-P, Class II.

B. Remove Insulation.

NOTE: Listed below are general rules to follow when removing fiberglas or foam insulation.

(1) Identify area of each blanket when removing several blankets.

(2) Pay close attention to method and manner of installation to facilitate reinstallation of insulation.

(3) When necessary to remove foam, use a sharp knife, taking care not to damage the metal surface.

(4) Bag and tag all loose hardware for installation.

C. Install Insulation.

NOTE: Listed below are general rules to follow when installing fiberglas blankets, foam or sound-deadening tape.

(1) Always install blankets with breather hole facing inboard.

(2) Install blankets outboard of all harnesses, conduit, and ducts, wherever possible.

(3) When blanket is provided with a flap, fold flap in direction of belt frame flange. If belt frame has double flange, fold flap forward.

(4) Clips and lacing cord are used on installations of blankets with flaps.

(5) Sound-deadening tape must be installed 0.12-inch maximum distance from stringers and belt frames on exterior skin of fuselage.

2. Insulation

The fuselage is insulated against temperature and sound from station 152 to station 1488 with three types of insulation. Primarily the insulation consists of fiberglas blankets enclosed in neoprene coated nylon. Sound deadening tape is used on the inner surface of the exterior skin between station 375 and station 1488; foam is used where space is limited.

The fiberglas blankets vary in thickness from 0.38 inch to five inches and are manufactured in various sizes and shapes. Blankets are installed in several different ways, depending on the location. The majority of the blankets are held in place with waxed nylon cord laced between clips attached to the belt frames. Lacing cord, used for all blanket installations requiring cord, is waxed nylon complying with MIL-T-713, Type 5, Comp-P, Class II. In some locations special type fasteners with large washers and screws are used. Other locations require the use of double-faced tape (Tape No. 150, Bauer and Black, or equivalent) or cement (EC 1357, Minnesota Mining and Manufacturing or equivalent). At butt joints all blankets overlap or are sealed with an additional blanket. See Figure 201 for illustration of blanket installations. The cabin air duct is covered on the left, right and lower sides with one or one-half-inch thick fiberglas blankets. The reinforced edges of blankets used on the cabin air duct contain grommets. The grommets are used in lacing the blankets.

Sound deadening tape No. 428 Type "B" or No. 428 Type "C" (Minnesota Mining and Manufacturing) is applied to the inner surface of the exterior skin between stations 375 and 1488 in varying thicknesses.

Foam (EH 144, American Latex Corporation or equivalent) is cemented to all non-isolated exposed structures which are not insulated with blankets. Non-isolated exposed structure is defined as metal structure in direct contact with primary structure within six inches of pressurized panels.

CHAPTER 25

EQUIPMENT AND FURNISHINGS - DESCRIPTION AND OPERATION

1. General

The equipment and furnishings are those items not related to any airplane operating system, but are required for the comfort, convenience, and safety of the passengers and crew and to meet certain emergencies. All compartments are equipped and furnished to best serve the needs of the passengers and crew. This equipment consists of such items as buffets, lavatories, and coat closets for the passengers' personal effects. In addition, the overhead hatracks provide stowage for blankets, pillows, hats, etc., and serve as a steadying rail for passengers walking in the aisle. These hatracks are also equipped with individual passenger reading lights, stewardess call buttons, and automatically-operated individual oxygen masks.

In addition to providing pleasing surroundings, the interior trim of the airplane forms the inner wall of a double-walled construction that insulates the occupants from both noise and extreme temperatures. The thick aluminum skin of the fuselage forms the outer wall and contributes to noise reduction. Moisture-proof, Skydrol-proof and fire resistant vinyl-covered fiberglas blankets fill the space between the inner and outer walls. These fiberglas blankets are bonded together in one-inch layers, and are held in place with metal clips attached to the beltframes and laced nylon cord. Where space is limited, then vinyl foam is used to maintain a continuous insulating wall. Both the left and right sides and the bottom of the overhead air conditioning ducts are covered with a one-inch fiberglas blanket. Aft of station 375, up to four plys of acoustical tape are applied to the inside surface of the fuselage skin to dampen exterior noises. The interior trim panels, floor panels, carpeting, seat upholstery, etc., aid in quieting the cabin area. All trim panels are mounted on fiberglas brackets to prevent the transfer of cold from the outside structure. The butt joints of much of the interior trim are designed with a 1/2 to 5/8-inch gap. This gap provides greater tolerances for easier replacement of the interior trim. These gaps are filled with sponge rubber rolls and neoprene extrusion to complete the trim and form an acoustical seal.

Cabin seating arrangements may be varied by the use of either two or three seats on the right side of the aisle. The aisle is 19 inches wide in the five-abreast coach seating configuration and 24 inches wide in the four-abreast first class configuration. Provisions are also made for the installation of coat racks in place of a row of seats anywhere between stations 687 and 1000, except at the emergency exits. These coat racks also double as cabin dividers to separate the first class and coach sections.

Emergency equipment such as oxygen, fire extinguishers, emergency transmitter, life rafts, life vests, emergency evacuation slides, and escape ropes are strategically located in the flight and passenger compartments.

TABLE OF CONTENTS (CONT)

CHAPTER SECTION	SUBJECT	PAGE
25-6-3	EMERGENCY TRANSMITTER	
	Removal/Installation Emergency Transmitter.....	201
	Adjustment/Test - Functional Test Emergency Transmitter.....	201
	Inspection/Check Emergency Transmitter.....	204
25-7-0	EVACUATION SLIDE SYSTEM	
	General.....	1
	Operation.....	1
25-7-1	EVACUATION SLIDES	
	Removal/Installation Evacuation Slides.....	201
	Adjustment/Test Evacuation Slides - Functional Check....	201
	Adjustment/Test Evacuation Slides - Folding Procedure...	202
	Inspection/Check Evacuation Slide.....	202
	Approved Repairs Evacuation Slides.....	204
25-8-0	FLARE RELEASE SYSTEM	
	General.....	1
	Flares.....	1
	Flare Release Solenoid.....	1
	Flare Chute.....	1
	Flare Chute Door Latching Mechanism.....	1
	Flare Chute Door.....	3
	Adjustment/Test Adjust Flare Release System.....	201
	Adjustment/Test Flare Release System Functional Test....	201
	Inspection/Check Flare Release System.....	203
25-8-1	FLARES	
	Removal/Installation Flares.....	201
25-8-2	FLARE RELEASE SOLENOID	
	Removal/Installation Flare Release Solenoid.....	201
25-8-3	FLARE CHUTE DOOR LATCHING MECHANISM	
	Removal/Installation Flare Chute Door Latch Mechanism...	201
25-8-4	FLARE CHUTE DOORS	
	Removal/Installation Flare Chute Doors.....	201

TABLE OF CONTENTS (CONT)

CHAPTER SECTION	SUBJECT	PAGE
25-5-0	CARGO AND ACCESSORY EQUIPMENT COMPARTMENTS (CONT)	
	Cargo Compartment Pressurization	3
	Cargo Compartment Fire Protection	3
	Cargo Compartment Lighting	3
	Electrical and Electronic Compartment	3
	Electrical and Electronic Compartment Shroud Panel and Curtain	3
	Electrical and Electronic Compartment Spare Fuse Holders	3
	Electrical and Electronic Compartment Lighting	5
	Hydraulic Compartment	5
	Hydraulic Compartment Shroud Panel	5
	Hydraulic Compartment Lighting	5
25-5-1	CARGO COMPARTMENTS	
	Removal/Installation Cargo Compartments Ceiling Panels	201
	Removal/Installation Cargo Compartment Floor Panels	201
	Removal/Installation Cargo Compartment Door Barriers	203
	Approved Repairs Cargo Compartment Side or Ceiling Panels	204
25-6-0	EMERGENCY EQUIPMENT	
	General	1
	Portable Fire Extinguishers	1
	Portable Oxygen Bottles	1
	First Aid Kits	8
	Emergency Axe	8
	Escape Ropes	8
	Life Rafts	8
	Life Vests	10
	Emergency Transmitter	11
25-6-1	LIFE RAFTS	
	Removal/Installation Floor-Installed Life Rafts	201
	Removal/Installation Overhead Life Raft and Container	201
	Adjustment/Test - Life Raft Leak Test	203
	Adjustment/Test - Test CO_2 Cylinder Head Setting	205
	Adjustment/Test - CO_2 Cylinder Weight Test	205
	Adjustment/Test - Life Raft Folding Procedure	205
	Inspection/Check Life Rafts	211
	Approved Repairs Life Raft	212
25-6-2	LIFE VESTS	
	Adjustment/Test - Life Vest Leak Test	201
	Adjustment/Test - Life Vest Folding Procedure	201
	Inspection/Check Life Vests	203
	Approved Repairs Life Vests	203

TABLE OF CONTENTS (CONT)

CHAPTER SECTION	SUBJECT	PAGE
25-4-1	LAVATORY FLOOR COVERING	
	Removal/Installation Lavatory Floor Covering.....	201
25-4-2	LAVATORY TRIM PANELS	
	Removal/Installation Lavatory Trim Panels.....	201
	Inspection/Check Lavatory Trim Panels.....	203
	Cleaning/Painting Lavatory Trim Panels.....	203
	Approved Repairs Lavatory Trim Panels.....	203
25-4-3	LAVATORY MIRRORS	
	Removal/Installation Forward Lavatory Mirrors.....	201
	Removal/Installation Aft Lavatory Mirrors.....	201
25-4-4	LAVATORY CABINETS	
	Removal/Installation Aft Lavatory Towel Dispenser Cabinets.....	201
	Removal/Installation Aft Lavatory Soap Dispenser Cabinets.....	203
25-4-5	LAVATORY WARNING SIGNS	
	Lavatory Warning Signs - Trouble Shooting.....	101
	Removal/Installation Forward Lavatory Warning Sign (Station 323) Light Bulbs.....	201
	Removal/Installation Forward Lavatory Warning Sign (Station 526) Light Bulbs.....	201
	Removal/Installation Forward Lavatory Warning Sign (Movable Coat Closet) Light Bulbs.....	201
	Removal/Installation Aft Lavatory Warning Sign Light Bulbs.....	201
	Removal/Installation Forward Lavatory Warning Sign (Station 526).....	201
	Removal/Installation Forward Lavatory Warning Sign (Movable Coat Closet).....	201
	Removal/Installation Aft Lavatory Warning Sign.....	203
	Removal/Installation Lavatory Door Lock.....	203
	Removal/Installation Lavatory Door Lock Occupied/ Vacant Sign Light Bulb.....	204
25-4-6	ELECTRIC SHAVER RECEPTACLES	
	Electric Shaver Receptacles - Trouble Shooting.....	101
	Removal/Installation Electric Shaver Receptacle.....	201
25-5-0	CARGO AND ACCESSORY EQUIPMENT COMPARTMENTS	
	General.....	1
	Cargo Compartments.....	1
	Cargo Compartment Door Barriers.....	1

TABLE OF CONTENTS (CONT)

CHAPTER SECTION	SUBJECT	PAGE
25-3-4	FORWARD ENTRANCE AREA TRIM PANELS (CONT)	
	Removal/Installation Sidewall Trim Panel - Aft of Main Entrance Door	203
	Removal/Installation Ceiling Forward Trim Panel	204
	Removal/Installation Ceiling Aft Trim Panel	204
	Removal/Installation Sidewall Trim Panels - Forward or Aft of Forward Service Door	205
	Removal/Installation Overhead Trim Panels - Forward or Aft of Forward Service Door	207
	Removal/Installation Overhead Trim Panel - Above Forward Service Door	208
	Removal/Installation Forward Main Entrance and Service Doorway Trim	209
25-3-5	AFT ENTRANCE AREA TRIM PANELS	
	Removal/Installation Overhead Trim Panel - Forward of Aft Service Door	201
	Removal/Installation Overhead Trim Panel - Above Aft Service or Aft Main Entrance Door	201
	Removal/Installation Overhead Trim Panel - Aft of Aft Service Door	203
	Removal/Installation Sidewall Trim Panel - Forward or Aft of Aft Service Door	204
	Removal/Installation Overhead or Sidewall Trim Panel - Aft of Aft Main Entrance Door	205
	Removal/Installation Ceiling Aft Panel	207
	Removal/Installation Ceiling Forward Panel	208
	Removal/Installation Aft Main Entrance and Service Doorway Trim	209
	Removal/Installation Header, Aft Entrance Area	209
25-3-6	MAIN ENTRANCE AND SERVICE DOOR TRIM PANELS	
	Removal/Installation Forward and Aft Main Entrance Door Trim Panel	201
	Removal/Installation Forward and Aft Service Door Trim Panel	201
25-4-0	LAVATORY COMPARTMENT	
	General	1
	Floor Covering	1
	Trim Panels	1
	Lavatory Warning Signs	1
	Electric Shaver Receptacles	3
	Mirrors	3
	Cabinets	3

TABLE OF CONTENTS (CONT)

CHAPTER SECTION	SUBJECT	PAGE
25-2-9	PASSENGER WARNING SIGNS	
	Removal/Installation Cabin Passenger Warning Sign Light Bulbs	201
	Removal/Installation Cabin Passenger Warning Signs	201
	Removal/Installation Forward Entrance Area and Movable Coat Closet Passenger Warning Sign Light Bulbs	203
	Removal/Installation Movable Coat Closet Passenger Warning Signs	205
	Removal/Installation Lounge Area Passenger Warning Sign Light Bulbs	205
	Removal/Installation Lounge Area Passenger Warning Sign	206
	Removal/Installation Lavatory RETURN TO CABIN Light Bulbs	207
	Removal/Installation Lavatory RETURN TO CABIN Signs	207
	Adjustment/Test Passenger Warning Lights	207
25-2-10	COAT CLOSETS	
	Removal/Installation Movable Coat Closet	201
25-3-0	ENTRANCE AREAS	
	General	1
	Buffets	1
	Stewardess Control Panels	1
	Stewardess Seats	1
	Floor Covering	2
	Side and Ceiling Trim Panels	2
25-3-1	BUFFETS - (TO BE FURNISHED)	
25-3-2	STEWARDESS SEATS	
	Removal/Installation Stewardess Aft Facing Seats	201
	Removal/Installation Stewardess Forward Facing Single Seat	201
	Removal/Installation Stewardess Double Seat	203
	Removal/Installation Stewardess Double Seat Back Cushions	205
	Inspection/Check Stewardess Seats	206
25-3-3	ENTRANCE AREA FLOOR COVERING	
	Removal/Installation Entrance Area Vinyl Carpet	201
	Removal/Installation Entrance Area Wool Carpet and Pad	203
25-3-4	FORWARD ENTRANCE AREA TRIM PANELS	
	Removal/Installation Overhead Trim Panel - Above Main Entrance Door	201
	Removal/Installation Overhead Trim Panel - Aft of Main Entrance Door	203

TABLE OF CONTENTS (CONT)

CHAPTER SECTION	SUBJECT	PAGE
25-2-0	PASSENGER CABIN EQUIPMENT AND FURNISHINGS (CONT)	
	Trim	5
	Passenger Warning Signs	7
	Food Tray Stowage	7
	Cabin Thermometers	9
25-2-1	MAIN CABIN SEATS	
	Main Cabin Seats - Trouble Shooting	101
	Removal/Installation Main Cabin Seats	201
	Removal/Installation Main Cabin Seat Back and Tray	205
	Removal/Installation Seat Back Lock	205
	Removal/Installation Seat Back Lock Control Cable	207
	Removal/Installation Arm Cap	208
	Removal/Installation Center Armrest	209
	Adjustment/Test Cabin Seats	209
	Inspection/Check Cabin Seats	210
	Cleaning/Painting Cabin Seats	211
	Approved Repairs Cabin Seats	211
25-2-2	LOUNGE SEATS	
	Maintenance Practices - Lounge Seats	201
25-2-3	MAIN CABIN CARPET	
	Removal/Installation Carpet	201
25-2-4	WAINSCOT PANELS	
	Removal/Installation Wainscot Panels	201
25-2-5	WINDOW TRIM PANELS	
	Removal/Installation Window Trim Panels	201
	Adjustment/Test Window Curtain Cable Rigging	201
25-2-6	HATRACK AND CONVENIENCE PODS	
	Removal/Installation Hatrack Adjustable Panels	201
	Removal/Installation Convenience Pods	201
25-2-7	CABIN CEILING PANELS	
	Removal/Installation Ceiling Side Panels	201
	Removal/Installation Ceiling Dropped Panels	203
	Removal/Installation Ceiling Raised Panels	205
25-2-8	EMERGENCY EXIT TRIM	
	Removal/Installation Emergency Exit Trim	201
	Adjustment/Test Window Curtain Cable Rigging	201

TABLE OF CONTENTS (CONT)

CHAPTER SECTION	SUBJECT	PAGE
25-1-3	NAVIGATOR/RADIO OPERATOR'S (NAVRO'S) SEAT	
	Navigator/Radio Operator's (Navro's) Seat - Trouble Shooting	101
	Removal/Installation Navro's Seat	201
	Adjustment/Test Navro's Seat	201
	Inspection/Check Navro's Seat	201
	Cleaning/Painting Navro's Seat	203
	Approved Repairs Navro's Seat	203
25-1-4	SUN VISORS	
	Sun Visors - Trouble Shooting	101
	Removal/Installation Pilot's and Copilot's Sun Visor	201
	Removal/Installation Sun Visor Runners and Monorail	201
25-1-5	OVERHEAD AND SIDEWALL TRIM PANELS	
	Removal/Installation Left and Right Upper Forward Panels	201
	Removal/Installation Left or Right Upper Aft Trim Panel	201
	Removal/Installation Left or Right Forward Sidewall Trim Panel	203
	Removal/Installation Left Upper Center Sidewall Trim Panel	205
	Removal/Installation Left Lower Center Trim Panel	205
	Removal/Installation Left Aft Trim Panel	207
	Inspection/Check Overhead and Sidewall Trim Panels	209
25-1-6	FLOOR COVERING	
	Removal/Installation Flight Compartment Floor Covering	201
25-1-7	FLIGHT COMPARTMENT CURTAIN	
	Removal/Installation Flight Compartment Curtain	201
25-1-8	FLIGHT COMPARTMENT WINDSHIELD AND WINDOW TRIM	
	Removal/Installation Windshield and Aft Window Trim	201
	Removal/Installation Sliding Window Trim	201
	Removal/Installation Over-Window Trim	203
25-2-0	PASSENGER CABIN EQUIPMENT AND FURNISHINGS	
	General	1
	Passenger Seats	1
	Lounge Area	4
	Movable Coat Closets	4
	Hatracks	4
	Air Distribution Grills	5

Chapter 25
EQUIPMENT/FURNISHINGS

TABLE OF CONTENTS

CHAPTER SECTION	SUBJECT	PAGE
25-0	EQUIPMENT AND FURNISHINGS	
	General	1
	Insulation	2
	Removal/Installation Insulation	201
	Cleaning/Painting Airplane Interior	204
	Cleaning/Painting Crew and Passenger Seat Upholstery	211
	Cleaning/Painting Wool Carpeting	211
	Cleaning/Painting Vinyl Carpet	212
	Cleaning/Painting Trim Panels	212
	Cleaning/Painting Seat Belts and Shoulder Harness	213
	Approved Repairs Boltaron Trim and Panels	213
	Approved Repairs Vinyl Covered Trim and Panels	216
25-1-0	FLIGHT COMPARTMENT EQUIPMENT AND FURNISHINGS	
	General	1
	Pilots' Seats	1
	Flight Engineer's Seat	1
	Navigator/Radio Operator's (Navro's) Seat	1
	Floor Covering	1
	Miscellaneous Equipment	3
	Sun Visors	3
	Flight Compartment Curtain	3
25-1-1	PILOTS' SEATS	
	Pilots' Seats - Trouble Shooting	101
	Removal/Installation Pilot's and Copilot's Seats	201
	Adjustment/Test Pilots' Seats	201
	Inspection/Check Pilots' Seats	204
	Cleaning/Painting Pilots' Seats	205
	Approved Repairs Pilots' Seats	205
25-1-2	FLIGHT ENGINEER'S SEAT	
	Flight Engineer's Seat - Trouble Shooting	101
	Removal/Installation Flight Engineer's Seat	201
	Adjustment/Test Flight Engineer's Seat	201
	Inspection/Check Flight Engineer's Seat	203
	Cleaning/Painting Flight Engineer's Seat	203
	Approved Repairs Flight Engineer's Seat	203

LIST OF EFFECTIVE PAGES (CONT)

CHAPTER	PAGE	DATE	CODE
25-8-0	203	Nov. 30/61	AC
	BLANK		
25-8-1	201	Nov. 30/61	AC
25-8-1	202	Nov. 30/61	AC
25-8-1	203	Nov. 30/61	AC
	BLANK		
25-8-2	201	Nov. 30/61	AC
25-8-2	202	Nov. 30/61	AC
25-8-3	201	Nov. 30/61	AC
25-8-3	202	Nov. 30/61	AC
25-8-3	203	Nov. 30/61	AC
	BLANK		
25-8-4	201	Nov. 30/61	AC
	BLANK		

LIST OF EFFECTIVE PAGES (CONT)

CHAPTER	PAGE	DATE	CODE
25-3-6	203	Nov. 30/61	AC
	BLANK		
25-4-0	1	Nov. 30/61	AC
25-4-0	2	Nov. 30/61	AC
25-4-0	3	Nov. 30/61	AC
25-4-0	4	Nov. 30/61	AC
25-4-0	5	Nov. 30/61	AC
	BLANK		
25-4-1	201	Nov. 30/61	AC
25-4-1	202	Nov. 30/61	AC
25-4-2	201	Nov. 30/61	AC
25-4-2	202	Nov. 30/61	AC
25-4-2	203	Nov. 30/61	AC
	BLANK		
25-4-3	201	Nov. 30/61	AC
25-4-3	202	Nov. 30/61	AC
25-4-3	203	Nov. 30/61	AC
	BLANK		
25-4-4	201	Nov. 30/61	AC
25-4-4	202	Nov. 30/61	AC
25-4-4	203	Nov. 30/61	AC
	BLANK		
25-4-5	101	Nov. 30/61	AC
25-4-5	102	Nov. 30/61	AC
25-4-5	201	Nov. 30/61	AC
25-4-5	202	Nov. 30/61	AC
25-4-5	203	Nov. 30/61	AC
25-4-5	204	Nov. 30/61	AC
25-4-6	101	Nov. 30/61	AC
	BLANK		
25-4-6	201	Nov. 30/61	AC
25-4-6	202	Nov. 30/61	AC
25-5-0	1	Nov. 30/61	AC
25-5-0	2	Nov. 30/61	AC
25-5-0	3	Nov. 30/61	AC
25-5-0	4	Nov. 30/61	AC
25-5-0	5	Nov. 30/61	AC
	BLANK		
25-5-1	201	Nov. 30/61	AC
25-5-1	202	Nov. 30/61	AC
25-5-1	203	Nov. 30/61	AC
25-5-1	204	Nov. 30/61	AC
25-5-1	205	Nov. 30/61	AC
	BLANK		
25-6-0	1	Nov. 30/61	AC
25-6-0	2	Nov. 30/61	AC
25-6-0	3	Nov. 30/61	AC
25-6-0	4	Nov. 30/61	AC
25-6-0	5	Nov. 30/61	AC
25-6-0	6	Nov. 30/61	AC
25-6-0	7	Nov. 30/61	AC
25-6-0	8	Nov. 30/61	AC
25-6-0	9	Nov. 30/61	AC
25-6-0	10	Nov. 30/61	AC
25-6-0	11	Nov. 30/61	AC
25-6-0	12	Nov. 30/61	AC
25-6-1	201	Nov. 30/61	AC
25-6-1	202	Nov. 30/61	AC
25-6-1	203	Nov. 30/61	AC
25-6-1	204	Nov. 30/61	AC
25-6-1	205	Nov. 30/61	AC
25-6-1	206	Nov. 30/61	AC
25-6-1	207	Nov. 30/61	AC
25-6-1	208	Nov. 30/61	AC
25-6-1	209	Nov. 30/61	AC
25-6-1	210	Nov. 30/61	AC
25-6-1	211	Nov. 30/61	AC
25-6-1	212	Nov. 30/61	AC
25-6-1	213	Nov. 30/61	AC
	BLANK		
25-6-2	201	Nov. 30/61	AC
25-6-2	202	Nov. 30/61	AC
25-6-2	203	Nov. 30/61	AC
25-6-2	204	Nov. 30/61	AC
25-6-3	201	Nov. 30/61	AC
25-6-3	202	Nov. 30/61	AC
25-6-3	203	Nov. 30/61	AC
25-6-3	204	Nov. 30/61	AC
25-7-0	1	Nov. 30/61	AC
25-7-0	2	Nov. 30/61	AC
25-7-1	201	Nov. 30/61	AC
25-7-1	202	Nov. 30/61	AC
25-7-1	203	Nov. 30/61	AC
25-7-1	204	Nov. 30/61	AC
25-8-0	1	Nov. 30/61	AC
25-8-0	2	Nov. 30/61	AC
25-8-0	3	Nov. 30/61	AC
	BLANK		
25-8-0	201	Nov. 30/61	AC
25-8-0	202	Nov. 30/61	AC

LIST OF EFFECTIVE PAGES (CONT)

CHAPTER	PAGE	DATE	CODE
25-2-0	3	Nov. 30/61	AC
25-2-0	4	Nov. 30/61	AC
25-2-0	5	Nov. 30/61	AC
25-2-0	6	Nov. 30/61	AC
25-2-0	7	Nov. 30/61	AC
25-2-0	8	Nov. 30/61	AC
25-2-0	9	Nov. 30/61	AC
	BLANK		
25-2-1	101	Nov. 30/61	AC
25-2-1	102	Nov. 30/61	AC
25-2-1	201	Nov. 30/61	AC
25-2-1	202	Nov. 30/61	AC
25-2-1	203	Nov. 30/61	AC
25-2-1	204	Nov. 30/61	AC
25-2-1	205	Nov. 30/61	AC
25-2-1	206	Nov. 30/61	AC
25-2-1	207	Nov. 30/61	AC
25-2-1	208	Nov. 30/61	AC
25-2-1	209	Nov. 30/61	AC
25-2-1	210	Nov. 30/61	AC
25-2-1	211	Nov. 30/61	AC
25-2-1	212	Nov. 30/61	AC
25-2-2	201	Nov. 30/61	AC
	BLANK		
25-2-3	201	Nov. 30/61	AC
25-2-3	202	Nov. 30/61	AC
25-2-3	203	Nov. 30/61	AC
	BLANK		
25-2-4	201	Nov. 30/61	AC
25-2-4	202	Nov. 30/61	AC
25-2-5	201	Nov. 30/61	AC
25-2-5	202	Nov. 30/61	AC
25-2-5	203	Nov. 30/61	AC
	BLANK		
25-2-6	201	Nov. 30/61	AC
25-2-6	202	Nov. 30/61	AC
25-2-6	203	Nov. 30/61	AC
25-2-6	204	Nov. 30/61	AC
25-2-7	201	Nov. 30/61	AC
25-2-7	202	Nov. 30/61	AC
25-2-7	203	Nov. 30/61	AC
25-2-7	204	Nov. 30/61	AC
25-2-7	205	Nov. 30/61	AC
	BLANK		
25-2-8	201	Nov. 30/61	AC
25-2-8	202	Nov. 30/61	AC
25-2-9	201	Nov. 30/61	AC
25-2-9	202	Nov. 30/61	AC
25-2-9	203	Nov. 30/61	AC
25-2-9	204	Nov. 30/61	AC
25-2-9	205	Nov. 30/61	AC
25-2-9	206	Nov. 30/61	AC
25-2-9	207	Nov. 30/61	AC
25-2-9	208	Nov. 30/61	AC
25-2-10	201	Nov. 30/61	AC
25-2-10	202	Nov. 30/61	AC
25-3-0	1	Nov. 30/61	AC
25-3-0	2	Nov. 30/61	AC
25-3-2	201	Nov. 30/61	AC
25-3-2	202	Nov. 30/61	AC
25-3-2	203	Nov. 30/61	AC
25-3-2	204	Nov. 30/61	AC
25-3-2	205	Nov. 30/61	AC
25-3-2	206	Nov. 30/61	AC
25-3-3	201	Nov. 30/61	AC
25-3-3	202	Nov. 30/61	AC
25-3-3	203	Nov. 30/61	AC
25-3-3	204	Nov. 30/61	AC
25-3-4	201	Nov. 30/61	AC
25-3-4	202	Nov. 30/61	AC
25-3-4	203	Nov. 30/61	AC
25-3-4	204	Nov. 30/61	AC
25-3-4	205	Nov. 30/61	AC
25-3-4	206	Nov. 30/61	AC
25-3-4	207	Nov. 30/61	AC
25-3-4	208	Nov. 30/61	AC
25-3-4	209	Nov. 30/61	AC
25-3-4	210	Nov. 30/61	AC
25-3-5	201	Nov. 30/61	AC
25-3-5	202	Nov. 30/61	AC
25-3-5	203	Nov. 30/61	AC
25-3-5	204	Nov. 30/61	AC
25-3-5	205	Nov. 30/61	AC
25-3-5	206	Nov. 30/61	AC
25-3-5	207	Nov. 30/61	AC
25-3-5	208	Nov. 30/61	AC
25-3-5	209	Nov. 30/61	AC
25-3-5	210	Nov. 30/61	AC
25-3-6	201	Nov. 30/61	AC
25-3-6	202	Nov. 30/61	AC

LIST OF EFFECTIVE PAGES

Chapter 25
EQUIPMENT/FURNISHINGS

CHAPTER	PAGE	DATE	CODE
25	i	Nov. 30/61	AC
25	ii	Nov. 30/61	AC
25	iii	Nov. 30/61	AC
25	iv	Nov. 30/61	AC
25	1	Nov. 30/61	AC
25	2	Nov. 30/61	AC
25	3	Nov. 30/61	AC
25	4	Nov. 30/61	AC
25	5	Nov. 30/61	AC
25	6	Nov. 30/61	AC
25	7	Nov. 30/61	AC
25	8	Nov. 30/61	AC
25-0	1	Nov. 30/61	AC
25-0	2	Nov. 30/61	AC
25-0	201	Nov. 30/61	AC
25-0	202	Nov. 30/61	AC
25-0	203	Nov. 30/61	AC
25-0	204	Nov. 30/61	AC
25-0	205	Nov. 30/61	AC
25-0	206	Nov. 30/61	AC
25-0	207	Nov. 30/61	AC
25-0	208	Nov. 30/61	AC
25-0	209	Nov. 30/61	AC
25-0	210	Nov. 30/61	AC
25-0	211	Nov. 30/61	AC
25-0	212	Nov. 30/61	AC
25-0	213	Nov. 30/61	AC
25-0	214	Nov. 30/61	AC
25-0	215	Nov. 30/61	AC
25-0	216	Nov. 30/61	AC
25-0	217	Nov. 30/61	AC
25-0	218	Nov. 30/61	AC
25-1-0	1	Nov. 30/61	AC
25-1-0	2	Nov. 30/61	AC
25-1-0	3	Nov. 30/61	AC
	BLANK		
25-1-1	101	Nov. 30/61	AC
25-1-1	102	Nov. 30/61	AC
25-1-1	201	Nov. 30/61	AC
25-1-1	202	Nov. 30/61	AC
25-1-1	203	Nov. 30/61	AC
25-1-1	204	Nov. 30/61	AC
25-1-1	205	Nov. 30/61	AC
	BLANK		
25-1-2	101	Nov. 30/61	AC
25-1-2	102	Nov. 30/61	AC
25-1-2	103	Nov. 30/61	AC
	BLANK		
25-1-2	201	Nov. 30/61	AC
25-1-2	202	Nov. 30/61	AC
25-1-2	203	Nov. 30/61	AC
	BLANK		
25-1-3	101	Nov. 30/61	AC
	BLANK		
25-1-3	201	Nov. 30/61	AC
25-1-3	202	Nov. 30/61	AC
25-1-3	203	Nov. 30/61	AC
	BLANK		
25-1-4	101	Nov. 30/61	AC
	BLANK		
25-1-4	201	Nov. 30/61	AC
25-1-4	202	Nov. 30/61	AC
25-1-4	203	Nov. 30/61	AC
	BLANK		
25-1-5	201	Nov. 30/61	AC
25-1-5	202	Nov. 30/61	AC
25-1-5	203	Nov. 30/61	AC
25-1-5	204	Nov. 30/61	AC
25-1-5	205	Nov. 30/61	AC
25-1-5	206	Nov. 30/61	AC
25-1-5	207	Nov. 30/61	AC
25-1-5	208	Nov. 30/61	AC
25-1-5	209	Nov. 30/61	AC
	BLANK		
25-1-6	201	Nov. 30/61	AC
25-1-6	202	Nov. 30/61	AC
25-1-7	201	Nov. 30/61	AC
	BLANK		
25-1-8	201	Nov. 30/61	AC
25-1-8	202	Nov. 30/61	AC
25-1-8	203	Nov. 30/61	AC
25-1-8	204	Nov. 30/61	AC
25-2-0	1	Nov. 30/61	AC
25-2-0	2	Nov. 30/61	AC